

# 2019 Index

## IEEE Transactions on Computational Social Systems

### Vol. 6

This index covers all technical items—papers, correspondence, reviews, etc.—that appeared in this periodical during 2019, and items from previous years that were commented upon or corrected in 2019. Departments and other items may also be covered if they have been judged to have archival value.

The Author Index contains the primary entry for each item, listed under the first author's name. The primary entry includes the coauthors' names, the title of the paper or other item, and its location, specified by the publication abbreviation, year, month, and inclusive pagination. The Subject Index contains entries describing the item under all appropriate subject headings, plus the first author's name, the publication abbreviation, month, and year, and inclusive pages. Note that the item title is found only under the primary entry in the Author Index.

#### Author Index

##### A

- Abdallah, C.**, *see* Abu Salem, F.K., *TCSS Feb. 2019 162-175*
- Abu Salem, F.K.**, Jaber, M., Abdallah, C., Mehio, O., and Najem, S., A Distributed Spatiotemporal Contingency Analysis for the Lebanese Power Grid; *TCSS Feb. 2019 162-175*
- Agarwal, S.**, *see* Muhlmeyer, M., *TCSS April 2019 197-207*
- Alfeo, A.L.**, Cimino, M.G.C.A., Lepri, B., Pentland, A.S., and Vaglini, G., Assessing Refugees' Integration via Spatio-Temporal Similarities of Mobility and Calling Behaviors; *TCSS Aug. 2019 726-738*
- Ali, H.**, *see* Shi, L., *TCSS Oct. 2019 1042-1050*
- Almeida, R.N.**, and David, N., Signs of Heritage—An Agent-Based Model of the Dynamics of Heritage Categories; *TCSS Dec. 2019 1283-1294*
- Alorainy, W.**, *see* Liu, H., *TCSS April 2019 227-240*
- Alotaibi, S.**, *see* Li, J., *TCSS Dec. 2019 1395-1406*
- Annamoradnejad, I.**, Fazli, M., Habibi, J., and Tavakoli, S., Cross-Cultural Studies Using Social Networks Data; *TCSS Aug. 2019 627-636*
- Assarandarban, M.**, *see* Niu, N., *TCSS Feb. 2019 190*
- Aung, N.**, *see* Ning, H., *TCSS June 2019 394-402*

##### B

- Balasubramaniam, S.**, *see* Vimalajeewa, D., *TCSS April 2019 323-337*
- Balasubramaniam, T.**, *see* Marakkalage, S.H., *TCSS Feb. 2019 82-95*
- Bandara, V.W.**, *see* Hung, B.W.K., *TCSS Oct. 2019 1007-1019*
- Bandyopadhyay, S.**, *see* Mallick, K., *TCSS Dec. 2019 1306-1317*
- Baral, R.**, Iyengar, S.S., Zhu, X., Li, T., and Sniatala, P., HiRecS: A Hierarchical Contextual Location Recommendation System; *TCSS Oct. 2019 1020-1037*
- Barman, D.**, Bhattacharya, S., Sarkar, R., and Chowdhury, N., *k*-Context Technique: A Method for Identifying Dense Subgraphs in a Heterogeneous Information Network; *TCSS Dec. 2019 1190-1205*
- Basak, R.**, Sural, S., Ganguly, N., and Ghosh, S.K., Online Public Shaming on Twitter: Detection, Analysis, and Mitigation; *TCSS April 2019 208-220*
- Basu, M.**, Shandilya, A., Khosla, P., Ghosh, K., and Ghosh, S., Extracting Resource Needs and Availabilities From Microblogs for Aiding Post-Disaster Relief Operations; *TCSS June 2019 604-618*
- Ben-Arieh, D.**, *see* Soltanolkotabi, M., *TCSS April 2019 268-276*
- Berry, D.P.**, *see* Vimalajeewa, D., *TCSS April 2019 323-337*
- Bhattacharya, S.**, *see* Maity, R., *TCSS Feb. 2019 149-161*
- Bhattacharya, S.**, *see* Barman, D., *TCSS Dec. 2019 1190-1205*
- Bhattacharyya, P.**, *see* Saini, N., *TCSS Dec. 2019 1219-1231*
- Bhavsar, M.**, *see* Chakraborty, R., *TCSS Aug. 2019 761-777*
- Bhowmick, A.K.**, Gueuning, M., Delvenne, J., Lambiotte, R., and Mitra, B., Temporal Sequence of Retweets Help to Detect Influential Nodes in Social Networks; *TCSS June 2019 441-455*
- Bi, Z.**, *see* Viriyasitavat, W., *TCSS Aug. 2019 739-748*

- Bi, Z.**, *see* Viriyasitavat, W., *TCSS Dec. 2019 1420-1432*
- Bi, Z.**, *see* Viriyasitavat, W., *TCSS Dec. 2019 1357-1368*
- Boostani, R.**, *see* Tajalizadeh, H., *TCSS June 2019 525-534*
- Bose, S.**, *see* Mallick, K., *TCSS Dec. 2019 1306-1317*
- Brahma, S.**, *see* Cao, N., *TCSS Oct. 2019 847-857*
- Buchanan, B.**, *see* Li, S., *TCSS Dec. 2019 1369-1372*
- Burnap, P.**, *see* Liu, H., *TCSS April 2019 227-240*

##### C

- Cai, J.**, *see* Wang, S., *TCSS June 2019 504-517*
- Cai, N.**, Diao, C., and Yan, B., A Social Computing-Based Analysis on Monogamous Marriage Puzzle of Human; *TCSS June 2019 518-524*
- Cai, Z.**, *see* Wang, Y., *TCSS June 2019 414-429*
- Cai, Z.**, *see* Tang, W., *TCSS Aug. 2019 702-714*
- Cai, Z.**, *see* Siddula, M., *TCSS Aug. 2019 809-820*
- Cao, N.**, Brahma, S., Geng, B., and Varshney, P.K., Optimal Auction Design With Quantized Bids for Target Tracking via Crowdsensing; *TCSS Oct. 2019 847-857*
- Carley, K.M.**, *see* Magelinski, T., *TCSS Oct. 2019 932-942*
- Census, C.**, Wang, H., Zhang, J., Deng, P., and Li, T., Particle Subswarms Collaborative Clustering; *TCSS Dec. 2019 1165-1179*
- Chakraborty, A.**, Ghosh, S., Ganguly, N., and Gummadi, K.P., Editorial Versus Audience Gatekeeping: Analyzing News Selection and Consumption Dynamics in Online News Media; *TCSS Aug. 2019 680-691*
- Chakraborty, R.**, Bhavsar, M., Dandapat, S.K., and Chandra, J., Tweet Summarization of News Articles: An Objective Ordering-Based Perspective; *TCSS Aug. 2019 761-777*
- Chakraborty, S.**, *see* Chowdhury, T., *TCSS Oct. 2019 858-869*
- Chakraborty, S.**, *see* Mallick, K., *TCSS Dec. 2019 1306-1317*
- Chakraborty, S.N.**, *see* Chowdhury, T., *TCSS Oct. 2019 858-869*
- Chandra, J.**, *see* Chakraborty, R., *TCSS Aug. 2019 761-777*
- Chandra, J.**, *see* Sequeira, R., *TCSS Dec. 2019 1232-1244*
- Chang, C.**, *see* Lu, P., *TCSS Oct. 2019 968-980*
- Chang, L.**, *see* Luo, X., *TCSS April 2019 277-288*
- Charoenruk, N.**, *see* Viriyasitavat, W., *TCSS Dec. 2019 1357-1368*
- Chen, F.**, *see* Qi, L., *TCSS Oct. 2019 1063-1072*
- Chen, J.**, Chen, L., Chen, Y., Zhao, M., Yu, S., Xuan, Q., and Yang, X., GA-Based Q-Attack on Community Detection; *TCSS June 2019 491-503*
- Chen, J.**, Wu, Y., Fan, L., Lin, X., Zheng, H., Yu, S., and Xuan, Q., N2VSCD-NNR: A Local Recommender System Based on Node2vec and Rich Information Network; *TCSS June 2019 456-466*
- Chen, J.**, Wu, Y., Xu, X., Zheng, H., Ruan, Z., and Xuan, Q., PSO-ANE: Adaptive Network Embedding With Particle Swarm Optimization; *TCSS Aug. 2019 649-659*
- Chen, L.**, *see* Chen, J., *TCSS June 2019 491-503*
- Chen, R.**, and Hendry, User Rating Classification via Deep Belief Network Learning and Sentiment Analysis; *TCSS June 2019 535-546*
- Chen, S.**, *see* Shu, C., *TCSS Oct. 2019 898-906*
- Chen, T.**, Liu, W., Fang, Q., Guo, J., and Du, D., Minimizing Misinformation Profit in Social Networks; *TCSS Dec. 2019 1206-1218*
- Chen, Y.**, *see* Chen, J., *TCSS June 2019 491-503*
- Chen, Y.**, Yu, L., Ota, K., and Dong, M., Hierarchical Posture Representation for Robust Action Recognition; *TCSS Oct. 2019 1115-1125*
- Chen, Y.**, *see* Ebrahimi Fard, A., *TCSS Oct. 2019 830-846*
- Chen, Y.**, *see* Liu, Y., *TCSS Dec. 2019 1273-1282*
- Cheng, J.C.**, *see* Niu, N., *TCSS Feb. 2019 190*
- Cheng, L.**, Liu, J., Xu, G., Zhang, Z., Wang, H., Dai, H., Wu, Y., and Wang, W., SCTSC: A Semicentralized Traffic Signal Control Mode With Attribute-Based Blockchain in IoVs; *TCSS Dec. 2019 1373-1385*

**Cheng, W.**, *see* Liu, G., *TCSS Oct. 2019 907-921*  
**Cheng, X.**, *see* Siddula, M., *TCSS Aug. 2019 809-820*  
**Choudhuri, R.**, *see* Mallick, K., *TCSS Dec. 2019 1306-1317*  
**Chowdhury, N.**, *see* Barman, D., *TCSS Dec. 2019 1190-1205*  
**Chowdhury, T.**, Muhuri, S., Chakraborty, S., and Chakraborty, S.N., Analysis of Adapted Films and Stories Based on Social Network; *TCSS Oct. 2019 858-869*  
**Cimino, M.G.C.A.**, *see* Alfeo, A.L., *TCSS Aug. 2019 726-738*  
**Coelho, H.M.F.**, *see* da Rocha Costa, A.C., *TCSS Aug. 2019 778-796*  
**Cole, J.**, Ghafurian, M., and Reitter, D., Word Adoption in Online Communities; *TCSS Feb. 2019 178-188*  
**Cui, J.**, *see* Wang, C., *TCSS Aug. 2019 637-648*

## D

**da Rocha Costa, A.C.**, and Coelho, H.M.F., Interactional Moral Systems: A Model of Social Mechanisms for the Moral Regulation of Exchange Processes in Agent Societies; *TCSS Aug. 2019 778-796*  
**Da Xu, L.**, *see* Viriyasitavat, W., *TCSS Aug. 2019 739-748*  
**Dai, H.**, *see* Wang, H., *TCSS Oct. 2019 1095-1105*  
**Dai, H.**, *see* Cheng, L., *TCSS Dec. 2019 1373-1385*  
**Dandapat, S.K.**, *see* Chakraborty, R., *TCSS Aug. 2019 761-777*  
**Dandapat, S.K.**, *see* Sequeira, R., *TCSS Dec. 2019 1232-1244*  
**Das, R.**, Kamruzzaman, J., and Karmakar, G., Opinion Formation in Online Social Networks: Exploiting Predisposition, Interaction, and Credibility; *TCSS June 2019 554-566*  
**David, N.**, *see* Almeida, R.N., *TCSS Dec. 2019 1283-1294*  
**De Salve, A.**, Mori, P., Guidi, B., and Ricci, L., An Analysis of the Internal Organization of Facebook Groups; *TCSS Dec. 2019 1245-1256*  
**Delvenne, J.**, *see* Bhowmick, A.K., *TCSS June 2019 441-455*  
**Deng, P.**, *see* Census, C., *TCSS Dec. 2019 1165-1179*  
**Dhelim, S.**, *see* Ning, H., *TCSS June 2019 394-402*  
**Diao, C.**, *see* Cai, N., *TCSS June 2019 518-524*  
**Ding, W.**, *see* Wang, S., *TCSS Oct. 2019 870-878*  
**Ding, Z.**, *see* Luo, X., *TCSS April 2019 277-288*  
**Dong, H.**, *see* Meng, Q., *TCSS June 2019 567-575*  
**Dong, M.**, *see* Huang, S., *TCSS Aug. 2019 749-760*  
**Dong, M.**, *see* Chen, Y., *TCSS Oct. 2019 1115-1125*  
**Dong, Y.**, *see* Zhan, M., *TCSS Aug. 2019 670-679*  
**Dong, Y.**, *see* Zha, Q., *TCSS Oct. 2019 994-1006*  
**Dou, W.**, *see* Qi, L., *TCSS Oct. 2019 1063-1072*  
**Dou, W.**, *see* Xu, X., *TCSS Dec. 2019 1407-1419*  
**Du, D.**, *see* Yang, W., *TCSS Feb. 2019 117-126*  
**Du, D.**, *see* Wei, W., *TCSS Feb. 2019 189*  
**Du, D.**, *see* Chen, T., *TCSS Dec. 2019 1206-1218*  
**Du, H.**, Yuan, C., Yuan, H., Wei, S., and Xu, W., Identify Connected Positive Influence Dominating Set in Social Networks Using Two-Hop Coverage; *TCSS Oct. 2019 956-967*  
**Dufour, R.**, *see* Papegnies, E., *TCSS Feb. 2019 38-55*

## E

**Ebrahimi Fard, A.**, Mohammadi, M., Chen, Y., and Van de Walle, B., Computational Rumor Detection Without Non-Rumor: A One-Class Classification Approach; *TCSS Oct. 2019 830-846*  
**Esfahani, A.**, *see* Parsamehr, R., *TCSS Dec. 2019 1467-1477*

## F

**Fan, L.**, *see* Chen, J., *TCSS June 2019 456-466*  
**Fang, Q.**, *see* Chen, T., *TCSS Dec. 2019 1206-1218*  
**Fazli, M.**, *see* Annamoradnejad, I., *TCSS Aug. 2019 627-636*  
**Feng, Y.**, and Wang, B., A Unified Framework of Epidemic Spreading Prediction by Empirical Mode Decomposition-Based Ensemble Learning Techniques; *TCSS Aug. 2019 660-669*  
**Flores, J.G.A.**, *see* Horawalavithana, S., *TCSS Dec. 2019 1343-1356*  
**Fu, M.**, *see* Zhou, X., *TCSS Oct. 2019 1073-1082*

## G

**Gacanin, H.**, *see* Li, J., *TCSS Dec. 2019 1395-1406*  
**Ganguly, N.**, *see* Basak, R., *TCSS April 2019 208-220*  
**Ganguly, N.**, *see* Chakraborty, A., *TCSS Aug. 2019 680-691*  
**Ganguly, N.**, *see* Rudra, K., *TCSS Oct. 2019 981-993*  
**Ganguly, N.**, *see* Sequeira, R., *TCSS Dec. 2019 1232-1244*  
**Gao, H.**, *see* Yin, Y., *TCSS Oct. 2019 1126-1137*  
**Gao, T.**, *see* Zhang, Q., *TCSS Dec. 2019 1329-1342*  
**Gayen, A.**, *see* Sequeira, R., *TCSS Dec. 2019 1232-1244*  
**Geng, B.**, *see* Cao, N., *TCSS Oct. 2019 847-857*  
**Geng, X.**, Zhang, Y., Jiao, Y., and Mei, Y., A Novel Hybrid Clustering Algorithm for Topic Detection on Chinese Microblogging; *TCSS April 2019 289-300*  
**Ghafurian, M.**, *see* Cole, J., *TCSS Feb. 2019 178-188*  
**Ghosh, K.**, *see* Basu, M., *TCSS June 2019 604-618*  
**Ghosh, S.**, *see* Basu, M., *TCSS June 2019 604-618*  
**Ghosh, S.**, *see* Chakraborty, A., *TCSS Aug. 2019 680-691*  
**Ghosh, S.**, *see* Zhu, J., *TCSS Dec. 2019 1156-1164*  
**Ghosh, S.K.**, *see* Basak, R., *TCSS April 2019 208-220*  
**Giannoulakis, S.**, and Tsapatsoulis, N., Filtering Instagram Hashtags Through Crowdtaging and the HITS Algorithm; *TCSS June 2019 592-603*  
**Gong, Y.**, *see* Wang, Y., *TCSS June 2019 414-429*  
**Goyal, P.**, *see* Rudra, K., *TCSS Oct. 2019 981-993*  
**Grover, S.**, Pulice, C., Simari, G.I., and Subrahmanian, V.S., BEEF: Balanced English Explanations of Forecasts; *TCSS April 2019 350-364*  
**Gueuning, M.**, *see* Bhowmick, A.K., *TCSS June 2019 441-455*  
**Guidi, B.**, *see* De Salve, A., *TCSS Dec. 2019 1245-1256*  
**Gummadi, K.P.**, *see* Chakraborty, A., *TCSS Aug. 2019 680-691*  
**Guo, J.**, and Wu, W., A Novel Scene of Viral Marketing for Complementary Products; *TCSS Aug. 2019 797-808*  
**Guo, J.**, *see* Chen, T., *TCSS Dec. 2019 1206-1218*  
**Guo, S.**, *see* Jin, Q., *TCSS Oct. 2019 1038-1041*  
**Guo, W.**, *see* Wang, S., *TCSS June 2019 504-517*  
**Guo, X.**, *see* Wang, J., *TCSS Feb. 2019 73-81*  
**Guo, Y.**, *see* Lv, P., *TCSS April 2019 377-386*  
**Gupta, A.**, *see* Niu, N., *TCSS Feb. 2019 190*

## H

**Habibi, J.**, *see* Annamoradnejad, I., *TCSS Aug. 2019 627-636*  
**Han, X.**, Yuan, Y., and Wang, F., A Fair Blockchain Based on Proof of Credit; *TCSS Oct. 2019 922-931*  
**Hanada, T.**, *see* Saito, K., *TCSS Feb. 2019 127-134*  
**Hao, F.**, Pang, G., Wu, Y., Pi, Z., Xia, L., and Min, G., Providing Appropriate Social Support to Prevention of Depression for Highly Anxious Sufferers; *TCSS Oct. 2019 879-887*  
**Hatta, S.**, *see* Saito, K., *TCSS Feb. 2019 127-134*  
**He, D.**, *see* Liu, X., *TCSS Feb. 2019 8-19*  
**He, Q.**, *see* Qi, L., *TCSS Oct. 2019 1063-1072*  
**Hendry, see Chen, R., *TCSS June 2019 535-546*  
**Hoosopon, D.**, *see* Viriyasitavat, W., *TCSS Dec. 2019 1357-1368*  
**Horawalavithana, S.**, Flores, J.G.A., Skvoretz, J., and Iamnitich, A., Behind the Mask: Understanding the Structural Forces That Make Social Graphs Vulnerable to Deanonimization; *TCSS Dec. 2019 1343-1356*  
**Hua, J.**, *see* Weng, Y., *TCSS June 2019 547-553*  
**Huang, C.**, *see* Lu, P., *TCSS Oct. 2019 968-980*  
**Huang, H.**, *see* Liu, G., *TCSS Oct. 2019 907-921*  
**Huang, R.**, *see* Li, A., *TCSS Oct. 2019 1106-1114*  
**Huang, S.**, Ota, K., Dong, M., and Li, F., MultiSpectralNet: Spectral Clustering Using Deep Neural Network for Multi-View Data; *TCSS Aug. 2019 749-760*  
**Huang, S.**, *see* Zhou, X., *TCSS Oct. 2019 1073-1082*  
**Huang, J.**, *see* Muhlmeyer, M., *TCSS April 2019 197-207*  
**Hung, B.W.K.**, Jayasumana, A.P., and Bandara, V.W., Finding Emergent Patterns of Behaviors in Dynamic Heterogeneous Social Networks; *TCSS Oct. 2019 1007-1019***

## I

- Iamnitchi, A.**, see Horawalavithana, S., *TCSS Dec. 2019 1343-1356*  
**Imran, M.**, see Rudra, K., *TCSS Oct. 2019 981-993*  
**Iyengar, G.**, see Luo, Y., *TCSS June 2019 576-581*  
**Iyengar, S.S.**, see Baral, R., *TCSS Oct. 2019 1020-1037*

## J

- Jaber, M.**, see Abu Salem, F.K., *TCSS Feb. 2019 162-175*  
**Jayasumana, A.P.**, see Hung, B.W.K., *TCSS Oct. 2019 1007-1019*  
**Jia, H.**, see Liu, L., *TCSS April 2019 241-249*  
**Jiang, C.**, see Li, J., *TCSS June 2019 430-440*  
**Jiang, L.**, see Shi, L., *TCSS Oct. 2019 1042-1050*  
**Jiang, L.**, and Zhang, X., BCOSN: A Blockchain-Based Decentralized Online Social Network; *TCSS Dec. 2019 1454-1466*  
**Jiao, Y.**, see Geng, X., *TCSS April 2019 289-300*  
**Jin, Q.**, Li, W., Guo, S., and Panchanathan, S., Guest Editorial: Special Issue on Human-Centric Cyber Social Computing; *TCSS Oct. 2019 1038-1041*

## K

- Kamruzzaman, J.**, see Das, R., *TCSS June 2019 554-566*  
**Kang, M.**, see Weng, Y., *TCSS June 2019 547-553*  
**Karmakar, G.**, see Das, R., *TCSS June 2019 554-566*  
**Kazim, M.**, see Shi, L., *TCSS Oct. 2019 1042-1050*  
**Khosla, P.**, see Basu, M., *TCSS June 2019 604-618*  
**Kolli, N.**, and Narayanaswamy, B., Influence Maximization From Cascade Information Traces in Complex Networks in the Absence of Network Structure; *TCSS Dec. 2019 1147-1155*  
**Kong, X.**, Li, M., Zhao, G., Zhang, H., and Xia, F., COOC: Visual Exploration of Co-Occurrence Mobility Patterns in Urban Scenarios; *TCSS June 2019 403-413*  
**Kong, X.**, Xia, F., Ma, K., Li, J., and Yang, Q., Discovering Transit-Oriented Development Regions of Megacities Using Heterogeneous Urban Data; *TCSS Oct. 2019 943-955*  
**Kong, X.**, Shi, Y., Wang, W., Ma, K., Wan, L., and Xia, F., The Evolution of Turing Award Collaboration Network: Bibliometric-Level and Network-Level Metrics; *TCSS Dec. 2019 1318-1328*  
**Kong, X.**, see Wang, W., *TCSS April 2019 311-322*  
**Korah, J.**, see Santos, E.E., *TCSS Feb. 2019 176-177*  
**Kou, G.**, see Zhan, M., *TCSS Aug. 2019 670-679*  
**Kou, G.**, see Zha, Q., *TCSS Oct. 2019 994-1006*  
**Kulatunga, C.**, see Vimalajeewa, D., *TCSS April 2019 323-337*

## L

- Labatut, V.**, see Papegnies, E., *TCSS Feb. 2019 38-55*  
**Lambiotte, R.**, see Bhowmick, A.K., *TCSS June 2019 441-455*  
**Lau, B.P.L.**, see Marakkalage, S.H., *TCSS Feb. 2019 82-95*  
**Lee, D.**, see Lu, P., *TCSS Oct. 2019 968-980*  
**Lepri, B.**, see Alfeo, A.L., *TCSS Aug. 2019 726-738*  
**Li, A.**, Liu, L., Ullah, A., Wang, R., Ma, J., Huang, R., Yu, Z., and Ning, H., Association Rule-Based Breast Cancer Prevention and Control System; *TCSS Oct. 2019 1106-1114*  
**Li, C.**, see Lv, P., *TCSS April 2019 377-386*  
**Li, D.**, see Yang, W., *TCSS June 2019 479-490*  
**Li, F.**, see Huang, S., *TCSS Aug. 2019 749-760*  
**Li, J.**, see Wang, F., *TCSS Feb. 2019 2-7*  
**Li, J.**, Liu, G., Yan, C., and Jiang, C., LORI: A Learning-to-Rank-Based Integration Method of Location Recommendation; *TCSS June 2019 430-440*  
**Li, J.**, see Wang, F., *TCSS Aug. 2019 619-626*  
**Li, J.**, see Kong, X., *TCSS Oct. 2019 943-955*  
**Li, J.**, see Wang, S., *TCSS Oct. 2019 870-878*  
**Li, J.**, see Xia, X., *TCSS Oct. 2019 1051-1062*  
**Li, J.**, see Wang, F., *TCSS Dec. 2019 1139-1146*

- Li, J.**, Zhou, Z., Wu, J., Mumtaz, S., Lin, X., Gacanin, H., and Alotaibi, S., Decentralized On-Demand Energy Supply for Blockchain in Internet of Things: A Microgrids Approach; *TCSS Dec. 2019 1395-1406*  
**Li, J.**, see Li, J., *TCSS Dec. 2019 1395-1406*  
**Li, L.**, see Zhang, C., *TCSS April 2019 221-226*  
**Li, M.**, see Kong, X., *TCSS June 2019 403-413*  
**Li, M.**, see Zhang, B., *TCSS Dec. 2019 1180-1189*  
**Li, Q.**, Wang, Z., Wu, B., and Xiao, Y., Competition and Cooperation: Dynamical Interplay Diffusion Between Social Topic Multiple Messages in Multiplex Networks; *TCSS June 2019 467-478*  
**Li, Q.**, Liu, L., Xu, M., Wu, B., and Xiao, Y., GDTM: A Gaussian Dynamic Topic Model for Forwarding Prediction Under Complex Mechanisms; *TCSS April 2019 338-349*  
**Li, Q.**, see Xiao, Y., *TCSS Aug. 2019 715-725*  
**Li, Q.**, see Wang, F., *TCSS Aug. 2019 619-626*  
**Li, S.**, Qin, T., and Min, G., Blockchain-Based Digital Forensics Investigation Framework in the Internet of Things and Social Systems; *TCSS Dec. 2019 1433-1441*  
**Li, S.**, Yuan, Y., Zhang, J.J., Buchanan, B., Liu, E., and Ramadoss, R., Guest Editorial Special Issue on Blockchain-Based Secure and Trusted Computing for IoT; *TCSS Dec. 2019 1369-1372*  
**Li, S.**, see Zhao, S., *TCSS Dec. 2019 1442-1453*  
**Li, T.**, see Baral, R., *TCSS Oct. 2019 1020-1037*  
**Li, T.**, see Census, C., *TCSS Dec. 2019 1165-1179*  
**Li, W.**, see Wei, W., *TCSS Feb. 2019 189*  
**Li, W.**, see Jin, Q., *TCSS Oct. 2019 1038-1041*  
**Li, Y.**, see Yang, W., *TCSS June 2019 479-490*  
**Li, Y.**, see Wang, X., *TCSS June 2019 582-591*  
**Li, Y.**, see Siddula, M., *TCSS Aug. 2019 809-820*  
**Li, Y.**, see Liu, G., *TCSS Oct. 2019 907-921*  
**Li, Z.**, see Luo, X., *TCSS April 2019 277-288*  
**Liang, H.**, see Zhan, M., *TCSS Aug. 2019 670-679*  
**Liang, H.**, see Zha, Q., *TCSS Oct. 2019 994-1006*  
**Liang, W.**, see Zhou, X., *TCSS Oct. 2019 888-897*  
**Liang, W.**, see Zhou, X., *TCSS Oct. 2019 1073-1082*  
**Lin, Q.**, see Wang, S., *TCSS June 2019 504-517*  
**Lin, T.**, and Pham, H., A Two-Stage Intervened Decision System With State-Dependent Random Inspection Mechanisms; *TCSS April 2019 365-376*  
**Lin, X.**, see Chen, J., *TCSS June 2019 456-466*  
**Lin, X.**, see Li, J., *TCSS Dec. 2019 1395-1406*  
**Linares, G.**, see Papegnies, E., *TCSS Feb. 2019 38-55*  
**Liu, A.**, see Zhang, Y., *TCSS Dec. 2019 1386-1394*  
**Liu, C.**, see Liu, X., *TCSS Feb. 2019 8-19*  
**Liu, E.**, see Li, S., *TCSS Dec. 2019 1369-1372*  
**Liu, G.**, see Li, J., *TCSS June 2019 430-440*  
**Liu, G.**, Wang, C., Peng, K., Huang, H., Li, Y., and Cheng, W., SocInf: Membership Inference Attacks on Social Media Health Data With Machine Learning; *TCSS Oct. 2019 907-921*  
**Liu, H.**, Burnap, P., Alorainy, W., and Williams, M.L., A Fuzzy Approach to Text Classification With Two-Stage Training for Ambiguous Instances; *TCSS April 2019 227-240*  
**Liu, H.**, see Lu, X.S., *TCSS April 2019 301-310*  
**Liu, H.**, see Yu, S., *TCSS Oct. 2019 1083-1094*  
**Liu, J.**, see Meng, Q., *TCSS June 2019 567-575*  
**Liu, J.**, see Cheng, L., *TCSS Dec. 2019 1373-1385*  
**Liu, L.**, see Li, Q., *TCSS April 2019 338-349*  
**Liu, L.**, Wang, L., Wu, W., Jia, H., and Zhang, Y., A Novel Hybrid-Jump-Based Sampling Method for Complex Social Networks; *TCSS April 2019 241-249*  
**Liu, L.**, see Xiao, Y., *TCSS Aug. 2019 715-725*  
**Liu, L.**, see Li, A., *TCSS Oct. 2019 1106-1114*  
**Liu, L.**, see Shi, L., *TCSS Oct. 2019 1042-1050*  
**Liu, Q.**, see Xu, X., *TCSS Dec. 2019 1407-1419*  
**Liu, S.**, see Wei, W., *TCSS Feb. 2019 189*  
**Liu, W.**, see Chen, T., *TCSS Dec. 2019 1206-1218*  
**Liu, X.**, He, D., and Liu, C., Information Diffusion Nonlinear Dynamics Modeling and Evolution Analysis in Online Social Network Based on Emergency Events; *TCSS Feb. 2019 8-19*

- Liu, X.**, *see* Wang, F., *TCSS April 2019 191-196*
- Liu, Y.**, *see* Zhang, C., *TCSS April 2019 221-226*
- Liu, Y.**, Shi, J., and Chen, Y., Thread Structure Learning on Online Health Forums With Partially Labeled Data; *TCSS Dec. 2019 1273-1282*
- Liu, J.**, *see* Wang, W., *TCSS April 2019 311-322*
- Lu, P.**, Chang, C., Lee, D., and Huang, C., Centrality Analysis in  $d$ -Regular Directed Acyclic Random Networks and Its Applications in Top- $k$  Recommendations; *TCSS Oct. 2019 968-980*
- Lu, Q.**, *see* Zhang, Y., *TCSS Dec. 2019 1386-1394*
- Lu, X.S.**, Zhou, M., Qi, L., and Liu, H., Clustering-Algorithm-Based Rare-Event Evolution Analysis via Social Media Data; *TCSS April 2019 301-310*
- Luo, G.**, *see* Tang, W., *TCSS Aug. 2019 702-714*
- Luo, J.**, *see* Marakkalage, S.H., *TCSS Feb. 2019 82-95*
- Luo, X.**, Yuan, Y., Li, Z., Zhu, M., Xu, Y., Chang, L., Sun, X., and Ding, Z., FBVA: A Flow-Based Visual Analytics Approach for Citywide Crowd Mobility; *TCSS April 2019 277-288*
- Luo, Y.**, Iyengar, G., and Venkatasubramanian, V., A One-Third Advice Rule Based on a Control-Theoretic Opinion Dynamics Model; *TCSS June 2019 576-581*
- Lv, P.**, Zhang, Z., Li, C., Guo, Y., Zhou, B., and Xu, M., Crowd Behavior Evolution With Emotional Contagion in Political Rallies; *TCSS April 2019 377-386*

## M

- Ma, J.**, *see* Yang, W., *TCSS Feb. 2019 117-126*
- Ma, J.**, *see* Yang, W., *TCSS June 2019 479-490*
- Ma, J.**, *see* Li, A., *TCSS Oct. 2019 1106-1114*
- Ma, K.**, *see* Kong, X., *TCSS Oct. 2019 943-955*
- Ma, K.**, *see* Kong, X., *TCSS Dec. 2019 1318-1328*
- Ma, S.**, *see* Wang, H., *TCSS Oct. 2019 1095-1105*
- Maccari, L.**, Detecting and Mitigating Points of Failure in Community Networks: A Graph-Based Approach; *TCSS Feb. 2019 103-116*
- Magelinski, T.**, and Carley, K.M., Analytic Models of Roll Call Voting Dynamics; *TCSS Oct. 2019 932-942*
- Maity, R.**, and Bhattacharya, S., Is My Interface Beautiful?—A Computational Model-Based Approach; *TCSS Feb. 2019 149-161*
- Mallick, K.**, Bandyopadhyay, S., Chakraborty, S., Choudhuri, R., and Bose, S., Topo2Vec: A Novel Node Embedding Generation Based on Network Topology for Link Prediction; *TCSS Dec. 2019 1306-1317*
- Mantas, G.**, *see* Parsamehr, R., *TCSS Dec. 2019 1467-1477*
- Marakkalage, S.H.**, Sarica, S., Lau, B.P.L., Viswanath, S.K., Balasubramaniam, T., Yuen, C., Yuen, B., Luo, J., and Nayak, R., Understanding the Lifestyle of Older Population: Mobile Crowdsensing Approach; *TCSS Feb. 2019 82-95*
- Martinez-Ortega, J.**, *see* Parsamehr, R., *TCSS Dec. 2019 1467-1477*
- Mehio, O.**, *see* Abu Salem, F.K., *TCSS Feb. 2019 162-175*
- Mei, Y.**, *see* Geng, X., *TCSS April 2019 289-300*
- Meng, Q.**, Zhou, M., Liu, J., and Dong, H., Pedestrian Evacuation With Herding Behavior in the View-Limited Condition; *TCSS June 2019 567-575*
- Min, G.**, *see* Hao, F., *TCSS Oct. 2019 879-887*
- Min, G.**, *see* Shu, C., *TCSS Oct. 2019 898-906*
- Min, G.**, *see* Li, S., *TCSS Dec. 2019 1433-1441*
- Mitra, B.**, *see* Bhowmick, A.K., *TCSS June 2019 441-455*
- Mitra, P.**, *see* Rudra, K., *TCSS Oct. 2019 981-993*
- Mo, H.**, Yan, K., Zhao, X., Zeng, Y., Wang, X., and Wang, F., Type-2 Fuzzy Comprehension Evaluation for Tourist Attractive Competency; *TCSS Feb. 2019 96-102*
- Mohammadi, M.**, *see* Ebrahimi Fard, A., *TCSS Oct. 2019 830-846*
- Mori, P.**, *see* De Salve, A., *TCSS Dec. 2019 1245-1256*
- Muhlmeyer, M.**, Huang, J., and Agarwal, S., Event Triggered Social Media Chatter: A New Modeling Framework; *TCSS April 2019 197-207*
- Muhuri, S.**, *see* Chowdhury, T., *TCSS Oct. 2019 858-869*
- Mumtaz, S.**, *see* Parsamehr, R., *TCSS Dec. 2019 1467-1477*
- Mumtaz, S.**, *see* Li, J., *TCSS Dec. 2019 1395-1406*

+ Check author entry for coauthors

## N

- Najem, S.**, *see* Abu Salem, F.K., *TCSS Feb. 2019 162-175*
- Narayanaswamy, B.**, *see* Kolli, N., *TCSS Dec. 2019 1147-1155*
- Nayak, R.**, *see* Marakkalage, S.H., *TCSS Feb. 2019 82-95*
- Ning, H.**, Dhelim, S., and Aung, N., PersonNet: Friend Recommendation System Based on Big-Five Personality Traits and Hybrid Filtering; *TCSS June 2019 394-402*
- Ning, H.**, *see* Li, A., *TCSS Oct. 2019 1106-1114*
- Niu, N.**, Wang, W., Gupta, A., Assarandarban, M., Xu, L.D., Savolainen, J., and Cheng, J.C., Corrections to “Requirements Socio-Technical Graphs for Managing Practitioners’ Traceability Questions” *TCSS Feb. 2019 190*
- Nyberg, T.R.**, *see* Wang, F., *TCSS Oct. 2019 822-829*

## O

- O'Brien, B.**, *see* Vimalajeewa, D., *TCSS April 2019 323-337*
- Oida, K.**, and Okubo, K., Adopter Community Formation Accelerated by Repeaters of Product Advertisement Campaigns; *TCSS Feb. 2019 56-72*
- Okubo, K.**, *see* Oida, K., *TCSS Feb. 2019 56-72*
- Ota, K.**, *see* Huang, S., *TCSS Aug. 2019 749-760*
- Ota, K.**, *see* Chen, Y., *TCSS Oct. 2019 1115-1125*
- Ouyang, L.**, *see* Wang, S., *TCSS Oct. 2019 870-878*

## P

- Panchanathan, S.**, *see* Jin, Q., *TCSS Oct. 2019 1038-1041*
- Pang, G.**, *see* Hao, F., *TCSS Oct. 2019 879-887*
- Panneerselvam, J.**, *see* Shi, L., *TCSS Oct. 2019 1042-1050*
- Papavassiliou, S.**, *see* Thanou, A., *TCSS Feb. 2019 135-148*
- Papegnies, E.**, Labatut, V., Dufour, R., and Linares, G., Conversational Networks for Automatic Online Moderation; *TCSS Feb. 2019 38-55*
- Parsamehr, R.**, Esfahani, A., Mantas, G., Radwan, A., Mumtaz, S., Rodriguez, J., and Martinez-Ortega, J., A Novel Intrusion Detection and Prevention Scheme for Network Coding-Enabled Mobile Small Cells; *TCSS Dec. 2019 1467-1477*
- Peng, K.**, *see* Liu, G., *TCSS Oct. 2019 907-921*
- Peng, P.**, *see* Wang, Y., *TCSS Aug. 2019 692-701*
- Pentland, A.S.**, *see* Alfeo, A.L., *TCSS Aug. 2019 726-738*
- Pham, H.**, *see* Lin, T., *TCSS April 2019 365-376*
- Pi, Z.**, *see* Hao, F., *TCSS Oct. 2019 879-887*
- Pulice, C.**, *see* Grover, S., *TCSS April 2019 350-364*
- Pungpapong, V.**, *see* Viriyasitavat, W., *TCSS Dec. 2019 1420-1432*

## Q

- Qi, L.**, *see* Wang, J., *TCSS Feb. 2019 73-81*
- Qi, L.**, *see* Lu, X.S., *TCSS April 2019 301-310*
- Qi, L.**, He, Q., Chen, F., Dou, W., Wan, S., Zhang, X., and Xu, X., Finding All You Need: Web APIs Recommendation in Web of Things Through Keywords Search; *TCSS Oct. 2019 1063-1072*
- Qi, L.**, *see* Xu, X., *TCSS Dec. 2019 1407-1419*
- Qin, R.**, *see* Wang, F., *TCSS June 2019 388-393*
- Qin, R.**, *see* Wang, F., *TCSS Oct. 2019 822-829*
- Qin, T.**, *see* Li, S., *TCSS Dec. 2019 1433-1441*

## R

- Radwan, A.**, *see* Parsamehr, R., *TCSS Dec. 2019 1467-1477*
- Ramadoss, R.**, *see* Li, S., *TCSS Dec. 2019 1369-1372*
- Reitter, D.**, *see* Cole, J., *TCSS Feb. 2019 178-188*
- Ricci, L.**, *see* De Salve, A., *TCSS Dec. 2019 1245-1256*
- Rodriguez, J.**, *see* Parsamehr, R., *TCSS Dec. 2019 1467-1477*
- Ruan, Z.**, *see* Chen, J., *TCSS Aug. 2019 649-659*
- Rudra, K.**, Goyal, P., Ganguly, N., Imran, M., and Mitra, P., Summarizing Situational Tweets in Crisis Scenarios: An Extractive-Abstractive Approach; *TCSS Oct. 2019 981-993*

## S

- Saha, S.**, *see* Saini, N., *TCSS Dec. 2019 1219-1231*
- Saini, N.**, Saha, S., and Bhattacharyya, P., Multiobjective-Based Approach for Microblog Summarization; *TCSS Dec. 2019 1219-1231*
- Saito, K.**, Hatta, S., and Hanada, T., Digital Currency Design for Sustainable Active Debris Removal in Space; *TCSS Feb. 2019 127-134*
- Santos, E.E.**, and Korah, J., Guest Editorial Special Issue on Parallel and Distributed Processing for Computational Social Systems; *TCSS Feb. 2019 176-177*
- Sapsomboon, A.**, *see* Viriyasitavat, W., *TCSS Aug. 2019 739-748*
- Sarica, S.**, *see* Marakkalage, S.H., *TCSS Feb. 2019 82-95*
- Sarkar, R.**, *see* Barman, D., *TCSS Dec. 2019 1190-1205*
- Savolainen, J.**, *see* Niu, N., *TCSS Feb. 2019 190*
- Sequeira, R.**, Gayen, A., Ganguly, N., Dandapat, S.K., and Chandra, J., A Large-Scale Study of the Twitter Follower Network to Characterize the Spread of Prescription Drug Abuse Tweets; *TCSS Dec. 2019 1232-1244*
- Shandilya, A.**, *see* Basu, M., *TCSS June 2019 604-618*
- Shang, X.**, *see* Wang, F., *TCSS Oct. 2019 822-829*
- Shi, J.**, *see* Liu, Y., *TCSS Dec. 2019 1273-1282*
- Shi, L.**, Liu, L., Wu, Y., Jiang, L., Kazim, M., Ali, H., and Panneerselvam, J., Human-Centric Cyber Social Computing Model for Hot-Event Detection and Propagation; *TCSS Oct. 2019 1042-1050*
- Shi, Y.**, *see* Kong, X., *TCSS Dec. 2019 1318-1328*
- Shimizu, S.**, *see* Zhou, X., *TCSS Oct. 2019 888-897*
- Shu, C.**, Zhao, Z., Min, G., and Chen, S., Mobile Edge Aided Data Dissemination for Wireless Healthcare Systems; *TCSS Oct. 2019 898-906*
- Siddula, M.**, Li, Y., Cheng, X., Tian, Z., and Cai, Z., Anonymization in Online Social Networks Based on Enhanced Equi-Cardinal Clustering; *TCSS Aug. 2019 809-820*
- Simari, G.I.**, *see* Grover, S., *TCSS April 2019 350-364*
- Skvoretz, J.**, *see* Horawalavithana, S., *TCSS Dec. 2019 1343-1356*
- Sniatala, P.**, *see* Baral, R., *TCSS Oct. 2019 1020-1037*
- Soltanolkottabi, M.**, Ben-Arieh, D., and Wu, C., Modeling Behavioral Response to Vaccination Using Public Goods Game; *TCSS April 2019 268-276*
- Stirling, W.C.**, Conditional Coordination Games on Cyclic Social Influence Networks; *TCSS April 2019 250-267*
- Subrahmanian, V.S.**, *see* Grover, S., *TCSS April 2019 350-364*
- Sun, X.**, *see* Luo, X., *TCSS April 2019 277-288*
- Sural, S.**, *see* Basak, R., *TCSS April 2019 208-220*

## T

- Tajalizadeh, H.**, and Boostani, R., A Novel Stream Clustering Framework for Spam Detection in Twitter; *TCSS June 2019 525-534*
- Tamburri, D.A.**, Software Architecture Social Debt: Managing the Incommunicability Factor; *TCSS Feb. 2019 20-37*
- Tang, W.**, Luo, G., Wu, Y., Tian, L., Zheng, X., and Cai, Z., A Second-Order Diffusion Model for Influence Maximization in Social Networks; *TCSS Aug. 2019 702-714*
- Tang, Y.**, *see* Wang, F., *TCSS April 2019 191-196*
- Tao, F.**, *see* Zhang, Y., *TCSS Dec. 2019 1386-1394*
- Tavakoli, S.**, *see* Annamoradnejad, I., *TCSS Aug. 2019 627-636*
- Thanou, A.**, Tsiropoulou, E.E., and Papavassiliou, S., Quality of Experience Under a Prospect Theoretic Perspective: A Cultural Heritage Space Use Case; *TCSS Feb. 2019 135-148*
- Tian, L.**, *see* Tang, W., *TCSS Aug. 2019 702-714*
- Tian, Z.**, *see* Siddula, M., *TCSS Aug. 2019 809-820*
- Tong, X.**, *see* Wang, Y., *TCSS June 2019 414-429*
- Tsapatsoulis, N.**, *see* Giannoulakis, S., *TCSS June 2019 592-603*
- Tsiropoulou, E.E.**, *see* Thanou, A., *TCSS Feb. 2019 135-148*

## U

- Ullah, A.**, *see* Li, A., *TCSS Oct. 2019 1106-1114*

+ Check author entry for coauthors

## V

- Vaglini, G.**, *see* Alfeo, A.L., *TCSS Aug. 2019 726-738*
- Van de Walle, B.**, *see* Ebrahimi Fard, A., *TCSS Oct. 2019 830-846*
- Varshney, P.K.**, *see* Cao, N., *TCSS Oct. 2019 847-857*
- Venkatasubramanian, V.**, *see* Luo, Y., *TCSS June 2019 576-581*
- Vimalajeewa, D.**, Balasubramaniam, S., O'Brien, B., Kulatunga, C., and Berry, D.P., Leveraging Social Network Analysis for Characterizing Cohesion of Human-Managed Animals; *TCSS April 2019 323-337*
- Viriyasitavat, W.**, Da Xu, L., Bi, Z., and Sapsomboon, A., New Blockchain-Based Architecture for Service Interoperations in Internet of Things; *TCSS Aug. 2019 739-748*
- Viriyasitavat, W.**, Xu, L.D., Bi, Z., and Pungpapong, V., Blockchain and Internet of Things for Modern Business Process in Digital Economy—the State of the Art; *TCSS Dec. 2019 1420-1432*
- Viriyasitavat, W.**, Xu, L.D., Bi, Z., Hoonsopon, D., and Charoenruk, N., Managing QoS of Internet-of-Things Services Using Blockchain; *TCSS Dec. 2019 1357-1368*
- Viriyasitavat, W.**, *see* Xu, L.D., *TCSS Dec. 2019 1295-1305*
- Viswanath, S.K.**, *see* Marakkalage, S.H., *TCSS Feb. 2019 82-95*

## W

- Wan, L.**, *see* Kong, X., *TCSS Dec. 2019 1318-1328*
- Wan, S.**, *see* Qi, L., *TCSS Oct. 2019 1063-1072*
- Wang, B.**, *see* Feng, Y., *TCSS Aug. 2019 660-669*
- Wang, C.**, Yang, B., and Cui, J., Fusing Behavioral Projection Models for Identity Theft Detection in Online Social Networks; *TCSS Aug. 2019 637-648*
- Wang, C.**, *see* Wang, C., *TCSS Aug. 2019 637-648*
- Wang, C.**, *see* Liu, G., *TCSS Oct. 2019 907-921*
- Wang, C.**, *see* Xiao, J., *TCSS Dec. 2019 1257-1272*
- Wang, F.**, Wang, P., Li, J., Yuan, Y., and Wang, X., Social Transportation: Social Signal and Technology for Transportation Engineering; *TCSS Feb. 2019 2-7*
- Wang, F.**, *see* Mo, H., *TCSS Feb. 2019 96-102*
- Wang, F.**, Zhang, J.J., Qin, R., and Yuan, Y., Social Energy: Emerging Token Economy for Energy Production and Consumption; *TCSS June 2019 388-393*
- Wang, F.**, *see* Weng, Y., *TCSS June 2019 547-553*
- Wang, F.**, *see* Zhang, C., *TCSS April 2019 221-226*
- Wang, F.**, Tang, Y., Liu, X., and Yuan, Y., Social Education: Opportunities and Challenges in Cyber-Physical-Social Space; *TCSS April 2019 191-196*
- Wang, F.**, Wang, X., Li, J., Ye, P., and Li, Q., Social Computing: From Crowdsourcing to Crowd Intelligence by Cyber Movement Organizations; *TCSS Aug. 2019 619-626*
- Wang, F.**, *see* Han, X., *TCSS Oct. 2019 922-931*
- Wang, F.**, Shang, X., Qin, R., Xiong, G., and Nyberg, T.R., Social Manufacturing: A Paradigm Shift for Smart Prosumers in the Era of Societies 5.0; *TCSS Oct. 2019 822-829*
- Wang, F.**, *see* Wang, S., *TCSS Oct. 2019 870-878*
- Wang, F.**, Ye, P., and Li, J., Social Intelligence: The Way We Interact, The Way We Go; *TCSS Dec. 2019 1139-1146*
- Wang, H.**, *see* Weng, Y., *TCSS June 2019 547-553*
- Wang, H.**, Ma, S., and Dai, H., A Rhombic Dodecahedron Topology for Human-Centric Banking Big Data; *TCSS Oct. 2019 1095-1105*
- Wang, H.**, *see* Cheng, L., *TCSS Dec. 2019 1373-1385*
- Wang, H.**, *see* Census, C., *TCSS Dec. 2019 1165-1179*
- Wang, J.**, Zhou, M., Guo, X., and Qi, L., Multiperiod Asset Allocation Considering Dynamic Loss Aversion Behavior of Investors; *TCSS Feb. 2019 73-81*
- Wang, K.I.**, *see* Zhou, X., *TCSS Oct. 2019 888-897*
- Wang, L.**, *see* Liu, L., *TCSS April 2019 241-249*
- Wang, P.**, *see* Wang, F., *TCSS Feb. 2019 2-7*
- Wang, R.**, *see* Li, A., *TCSS Oct. 2019 1106-1114*
- Wang, S.**, Cai, J., Lin, Q., and Guo, W., An Overview of Unsupervised Deep Feature Representation for Text Categorization; *TCSS June 2019 504-517*
- Wang, S.**, Ding, W., Li, J., Yuan, Y., Ouyang, L., and Wang, F., Decentralized Autonomous Organizations: Concept, Model, and Applications; *TCSS Oct. 2019 870-878*

- Wang, W.**, see Niu, N., *TCSS Feb. 2019 190*  
**Wang, W.**, see Kong, X., *TCSS Dec. 2019 1318-1328*  
**Wang, W.**, see Cheng, L., *TCSS Dec. 2019 1373-1385*  
**Wang, X.**, see Wang, F., *TCSS Feb. 2019 2-7*  
**Wang, X.**, see Mo, H., *TCSS Feb. 2019 96-102*  
**Wang, X.**, and Li, Y., Content Retrieval Based on Vehicular Cloud in Internet of Vehicles; *TCSS June 2019 582-591*  
**Wang, X.**, see Weng, Y., *TCSS June 2019 547-553*  
**Wang, X.**, see Wang, F., *TCSS Aug. 2019 619-626*  
**Wang, Y.**, Cai, Z., Zhan, Z., Gong, Y., and Tong, X., An Optimization and Auction-Based Incentive Mechanism to Maximize Social Welfare for Mobile Crowdsourcing; *TCSS June 2019 414-429*  
**Wang, Y.**, Xu, D., Peng, P., Xuan, Q., and Zhang, G., Analysis of Hospitalizing Behaviors Based on Big Trajectory Data; *TCSS Aug. 2019 692-701*  
**Wang, Z.**, see Li, Q., *TCSS June 2019 467-478*  
**Wang, Z.**, see Zhang, Q., *TCSS Dec. 2019 1329-1342*  
**Wang, W.**, Liu, J., Yang, Z., Kong, X., and Xia, F., Sustainable Collaborator Recommendation Based on Conference Closure; *TCSS April 2019 311-322*  
**Wei, S.**, see Du, H., *TCSS Oct. 2019 956-967*  
**Wei, W.**, Liu, S., Li, W., and Du, D., Corrections to "Fractal Intelligent Privacy Protection in Online Social Network Using Attribute-Based Encryption Schemes" *TCSS Feb. 2019 189*  
**Weng, Y.**, Wang, X., Hua, J., Wang, H., Kang, M., and Wang, F., Forecasting Horticultural Products Price Using ARIMA Model and Neural Network Based on a Large-Scale Data Set Collected by Web Crawler; *TCSS June 2019 547-553*  
**Williams, M.L.**, see Liu, H., *TCSS April 2019 227-240*  
**Wu, B.**, see Li, Q., *TCSS June 2019 467-478*  
**Wu, B.**, see Li, Q., *TCSS April 2019 338-349*  
**Wu, C.**, see Soltanolkotabi, M., *TCSS April 2019 268-276*  
**Wu, J.**, see Li, J., *TCSS Dec. 2019 1395-1406*  
**Wu, W.**, see Yang, W., *TCSS Feb. 2019 117-126*  
**Wu, W.**, see Yang, W., *TCSS June 2019 479-490*  
**Wu, W.**, see Liu, L., *TCSS April 2019 241-249*  
**Wu, W.**, see Guo, J., *TCSS Aug. 2019 797-808*  
**Wu, W.**, see Zhu, J., *TCSS Dec. 2019 1156-1164*  
**Wu, Y.**, see Chen, J., *TCSS June 2019 456-466*  
**Wu, Y.**, see Chen, J., *TCSS Aug. 2019 649-659*  
**Wu, Y.**, see Tang, W., *TCSS Aug. 2019 702-714*  
**Wu, Y.**, see Hao, F., *TCSS Oct. 2019 879-887*  
**Wu, Y.**, see Shi, L., *TCSS Oct. 2019 1042-1050*  
**Wu, Y.**, see Cheng, L., *TCSS Dec. 2019 1373-1385*

## X

- Xi, M.**, see Yin, Y., *TCSS Oct. 2019 1126-1137*  
**Xia, F.**, see Kong, X., *TCSS June 2019 403-413*  
**Xia, F.**, see Yu, S., *TCSS Oct. 2019 1083-1094*  
**Xia, F.**, see Kong, X., *TCSS Oct. 2019 943-955*  
**Xia, F.**, see Kong, X., *TCSS Dec. 2019 1318-1328*  
**Xia, L.**, see Hao, F., *TCSS Oct. 2019 879-887*  
**Xia, X.**, Zhou, Y., Li, J., and Yu, R., Quality-Aware Sparse Data Collection in MEC-Enhanced Mobile Crowdsensing Systems; *TCSS Oct. 2019 1051-1062*  
**Xia, F.**, see Wang, W., *TCSS April 2019 311-322*  
**Xiao, H.**, see Xiao, Y., *TCSS Aug. 2019 715-725*  
**Xiao, J.**, Wang, C., and Xu, X., Community Detection Based on Symbiotic Organisms Search and Neighborhood Information; *TCSS Dec. 2019 1257-1272*  
**Xiao, Y.**, see Li, Q., *TCSS June 2019 467-478*  
**Xiao, Y.**, see Li, Q., *TCSS April 2019 338-349*  
**Xiao, Y.**, Yu, H., Li, Q., Liu, L., Xu, M., and Xiao, H., MPURank: A Social Hotspot Tracking Scheme Based on Tripartite Graph and Multimessages Iterative Driven; *TCSS Aug. 2019 715-725*  
**Xiong, G.**, see Wang, F., *TCSS Oct. 2019 822-829*  
**Xu, D.**, see Wang, Y., *TCSS Aug. 2019 692-701*  
**Xu, D.**, see Zhang, Q., *TCSS Dec. 2019 1329-1342*  
**Xu, D.**, see Zhang, B., *TCSS Dec. 2019 1180-1189*

- Xu, G.**, see Cheng, L., *TCSS Dec. 2019 1373-1385*  
**Xu, L.**, see Zhang, Y., *TCSS Dec. 2019 1386-1394*  
**Xu, L.D.**, see Niu, N., *TCSS Feb. 2019 190*  
**Xu, L.D.**, see Viriyasitavat, W., *TCSS Dec. 2019 1420-1432*  
**Xu, L.D.**, see Viriyasitavat, W., *TCSS Dec. 2019 1357-1368*  
**Xu, L.D.**, and Viriyasitavat, W., Application of Blockchain in Collaborative Internet-of-Things Services; *TCSS Dec. 2019 1295-1305*  
**Xu, M.**, see Li, Q., *TCSS April 2019 338-349*  
**Xu, M.**, see Lv, P., *TCSS April 2019 377-386*  
**Xu, M.**, see Xiao, Y., *TCSS Aug. 2019 715-725*  
**Xu, W.**, see Du, H., *TCSS Oct. 2019 956-967*  
**Xu, X.**, see Chen, J., *TCSS Aug. 2019 649-659*  
**Xu, X.**, see Qi, L., *TCSS Oct. 2019 1063-1072*  
**Xu, X.**, see Xiao, J., *TCSS Dec. 2019 1257-1272*  
**Xu, X.**, see Zhang, Y., *TCSS Dec. 2019 1386-1394*  
**Xu, X.**, Liu, Q., Zhang, X., Zhang, J., Qi, L., and Dou, W., A Blockchain-Powered Crowdsourcing Method With Privacy Preservation in Mobile Environment; *TCSS Dec. 2019 1407-1419*  
**Xu, Y.**, see Luo, X., *TCSS April 2019 277-288*  
**Xuan, Q.**, see Chen, J., *TCSS June 2019 491-503*  
**Xuan, Q.**, see Chen, J., *TCSS June 2019 456-466*  
**Xuan, Q.**, see Chen, J., *TCSS Aug. 2019 649-659*  
**Xuan, Q.**, see Wang, Y., *TCSS Aug. 2019 692-701*

## Y

- Yan, B.**, see Cai, N., *TCSS June 2019 518-524*  
**Yan, C.**, see Li, J., *TCSS June 2019 430-440*  
**Yan, K.**, see Mo, H., *TCSS Feb. 2019 96-102*  
**Yan, R.**, see Yang, W., *TCSS June 2019 479-490*  
**Yang, B.**, see Wang, C., *TCSS Aug. 2019 637-648*  
**Yang, Q.**, see Kong, X., *TCSS Oct. 2019 943-955*  
**Yang, W.**, Yuan, J., Wu, W., Ma, J., and Du, D., Maximizing Activity Profit in Social Networks; *TCSS Feb. 2019 117-126*  
**Yang, W.**, Ma, J., Li, Y., Yan, R., Yuan, J., Wu, W., and Li, D., Marginal Gains to Maximize Content Spread in Social Networks; *TCSS June 2019 479-490*  
**Yang, X.**, see Chen, J., *TCSS June 2019 491-503*  
**Yang, Z.**, see Wang, W., *TCSS April 2019 311-322*  
**Yao, Y.**, see Zhao, S., *TCSS Dec. 2019 1442-1453*  
**Ye, P.**, see Wang, F., *TCSS Aug. 2019 619-626*  
**Ye, P.**, see Wang, F., *TCSS Dec. 2019 1139-1146*  
**Yin, Y.**, Zhang, R., Gao, H., and Xi, M., New Retail Business Analysis and Modeling: A Taobao Case Study; *TCSS Oct. 2019 1126-1137*  
**Yu, H.**, see Xiao, Y., *TCSS Aug. 2019 715-725*  
**Yu, L.**, see Chen, Y., *TCSS Oct. 2019 1115-1125*  
**Yu, R.**, see Xia, X., *TCSS Oct. 2019 1051-1062*  
**Yu, S.**, see Chen, J., *TCSS June 2019 491-503*  
**Yu, S.**, see Chen, J., *TCSS June 2019 456-466*  
**Yu, S.**, see Zhan, M., *TCSS Aug. 2019 670-679*  
**Yu, S.**, Xia, F., and Liu, H., Academic Team Formulation Based on Liebig's Barrel: Discovery of Anticask Effect; *TCSS Oct. 2019 1083-1094*  
**Yu, S.**, see Zha, Q., *TCSS Oct. 2019 994-1006*  
**Yu, Z.**, see Li, A., *TCSS Oct. 2019 1106-1114*  
**Yuan, C.**, see Du, H., *TCSS Oct. 2019 956-967*  
**Yuan, H.**, see Du, H., *TCSS Oct. 2019 956-967*  
**Yuan, J.**, see Yang, W., *TCSS Feb. 2019 117-126*  
**Yuan, J.**, see Yang, W., *TCSS June 2019 479-490*  
**Yuan, Y.**, see Wang, F., *TCSS Feb. 2019 2-7*  
**Yuan, Y.**, see Wang, F., *TCSS June 2019 388-393*  
**Yuan, Y.**, see Luo, X., *TCSS April 2019 277-288*  
**Yuan, Y.**, see Wang, F., *TCSS April 2019 191-196*  
**Yuan, Y.**, see Han, X., *TCSS Oct. 2019 922-931*  
**Yuan, Y.**, see Wang, S., *TCSS Oct. 2019 870-878*  
**Yuan, Y.**, see Li, S., *TCSS Dec. 2019 1369-1372*  
**Yuen, B.**, see Marakkalage, S.H., *TCSS Feb. 2019 82-95*  
**Yuen, C.**, see Marakkalage, S.H., *TCSS Feb. 2019 82-95*

## Z

- Zeng, Y.**, *see* Mo, H., *TCSS Feb. 2019 96-102*
- Zha, Q.**, Liang, H., Kou, G., Dong, Y., and Yu, S., A Feedback Mechanism With Bounded Confidence- Based Optimization Approach for Consensus Reaching in Multiple Attribute Large-Scale Group Decision-Making; *TCSS Oct. 2019 994-1006*
- Zhan, M.**, Liang, H., Kou, G., Dong, Y., and Yu, S., Impact of Social Network Structures on Uncertain Opinion Formation; *TCSS Aug. 2019 670-679*
- Zhan, Z.**, *see* Wang, Y., *TCSS June 2019 414-429*
- Zhang, B.**, Xu, D., Zhang, H., and Li, M., STCS Lexicon: Spectral-Clustering-Based Topic-Specific Chinese Sentiment Lexicon Construction for Social Networks; *TCSS Dec. 2019 1180-1189*
- Zhang, C.**, Liu, Y., Li, L., Zheng, N., and Wang, F., Joint Task Difficulties Estimation and Testees Ranking for Intelligence Evaluation; *TCSS April 2019 221-226*
- Zhang, G.**, *see* Wang, Y., *TCSS Aug. 2019 692-701*
- Zhang, H.**, *see* Kong, X., *TCSS June 2019 403-413*
- Zhang, H.**, *see* Zhang, B., *TCSS Dec. 2019 1180-1189*
- Zhang, J.**, *see* Census, C., *TCSS Dec. 2019 1165-1179*
- Zhang, J.**, *see* Xu, X., *TCSS Dec. 2019 1407-1419*
- Zhang, J.J.**, *see* Wang, F., *TCSS June 2019 388-393*
- Zhang, J.J.**, *see* Li, S., *TCSS Dec. 2019 1369-1372*
- Zhang, Q.**, Xu, D., Gao, T., and Wang, Z., Effect of NO<sub>2</sub> on O<sub>3</sub> Using Complex Network Topology Analysis; *TCSS Dec. 2019 1329-1342*
- Zhang, R.**, *see* Yin, Y., *TCSS Oct. 2019 1126-1137*
- Zhang, X.**, *see* Qi, L., *TCSS Oct. 2019 1063-1072*
- Zhang, X.**, *see* Jiang, L., *TCSS Dec. 2019 1454-1466*
- Zhang, X.**, *see* Xu, X., *TCSS Dec. 2019 1407-1419*
- Zhang, Y.**, *see* Liu, L., *TCSS April 2019 241-249*
- Zhang, Y.**, *see* Geng, X., *TCSS April 2019 289-300*
- Zhang, Y.**, Xu, X., Liu, A., Lu, Q., Xu, L., and Tao, F., Blockchain-Based Trust Mechanism for IoT-Based Smart Manufacturing System; *TCSS Dec. 2019 1386-1394*
- Zhang, Z.**, *see* Lv, P., *TCSS April 2019 377-386*
- Zhang, Z.**, *see* Cheng, L., *TCSS Dec. 2019 1373-1385*
- Zhao, G.**, *see* Kong, X., *TCSS June 2019 403-413*
- Zhao, M.**, *see* Chen, J., *TCSS June 2019 491-503*
- Zhao, S.**, Li, S., and Yao, Y., Blockchain Enabled Industrial Internet of Things Technology; *TCSS Dec. 2019 1442-1453*
- Zhao, X.**, *see* Mo, H., *TCSS Feb. 2019 96-102*
- Zhao, Z.**, *see* Shu, C., *TCSS Oct. 2019 898-906*
- Zheng, H.**, *see* Chen, J., *TCSS June 2019 456-466*
- Zheng, H.**, *see* Chen, J., *TCSS Aug. 2019 649-659*
- Zheng, N.**, *see* Zhang, C., *TCSS April 2019 221-226*
- Zheng, X.**, *see* Tang, W., *TCSS Aug. 2019 702-714*
- Zhou, B.**, *see* Lv, P., *TCSS April 2019 377-386*
- Zhou, M.**, *see* Wang, J., *TCSS Feb. 2019 73-81*
- Zhou, M.**, *see* Meng, Q., *TCSS June 2019 567-575*
- Zhou, M.**, *see* Lu, X.S., *TCSS April 2019 301-310*
- Zhou, X.**, Liang, W., Wang, K.I., and Shimizu, S., Multi-Modality Behavioral Influence Analysis for Personalized Recommendations in Health Social Media Environment; *TCSS Oct. 2019 888-897*
- Zhou, X.**, Liang, W., Huang, S., and Fu, M., Social Recommendation With Large-Scale Group Decision-Making for Cyber-Enabled Online Service; *TCSS Oct. 2019 1073-1082*
- Zhou, Y.**, *see* Xia, X., *TCSS Oct. 2019 1051-1062*
- Zhou, Z.**, *see* Li, J., *TCSS Dec. 2019 1395-1406*
- Zhu, J.**, Ghosh, S., and Wu, W., Group Influence Maximization Problem in Social Networks; *TCSS Dec. 2019 1156-1164*
- Zhu, M.**, *see* Luo, X., *TCSS April 2019 277-288*
- Zhu, X.**, *see* Baral, R., *TCSS Oct. 2019 1020-1037*

## Subject Index

## Numeric

## 5G mobile communication

A Novel Intrusion Detection and Prevention Scheme for Network Coding-Enabled Mobile Small Cells. *Parsamehr, R.*, +, *TCSS Dec. 2019 1467-1477*

Mobile Edge Aided Data Dissemination for Wireless Healthcare Systems. *Shu, C.*, +, *TCSS Oct. 2019 898-906*

## A

## Access control

BCOSN: A Blockchain-Based Decentralized Online Social Network. *Jiang, L.*, +, *TCSS Dec. 2019 1454-1466*

SCTSC: A Semicentralized Traffic Signal Control Mode With Attribute-Based Blockchain in IoVs. *Cheng, L.*, +, *TCSS Dec. 2019 1373-1385*

## Advertising data processing

Adopter Community Formation Accelerated by Repeaters of Product Advertisement Campaigns. *Oida, K.*, +, *TCSS Feb. 2019 56-72*

## Aerospace computing

Digital Currency Design for Sustainable Active Debris Removal in Space. *Saito, K.*, +, *TCSS Feb. 2019 127-134*

## Agricultural products

Forecasting Horticultural Products Price Using ARIMA Model and Neural Network Based on a Large-Scale Data Set Collected by Web Crawler. *Weng, Y.*, +, *TCSS June 2019 547-553*

## Air pollution

Effect of NO<sub>2</sub> on O<sub>3</sub> Using Complex Network Topology Analysis. *Zhang, Q.*, +, *TCSS Dec. 2019 1329-1342*

## Analytical models

Guest Editorial: Special Issue on Human-Centric Cyber Social Computing. *Jin, Q.*, +, *TCSS Oct. 2019 1038-1041*

Signs of Heritage—An Agent-Based Model of the Dynamics of Heritage Categories. *Almeida, R.N.*, +, *TCSS Dec. 2019 1283-1294*

## Application program interfaces

Finding All You Need: Web APIs Recommendation in Web of Things Through Keywords Search. *Qi, L.*, +, *TCSS Oct. 2019 1063-1072*

## Approximation algorithms

Influence Maximization From Cascade Information Traces in Complex Networks in the Absence of Network Structure. *Kolli, N.*, +, *TCSS Dec. 2019 1147-1155*

Minimizing Misinformation Profit in Social Networks. *Chen, T.*, +, *TCSS Dec. 2019 1206-1218*

## Artificial intelligence

Decentralized Autonomous Organizations: Concept, Model, and Applications. *Wang, S.*, +, *TCSS Oct. 2019 870-878*

## Asset management

Multiperiod Asset Allocation Considering Dynamic Loss Aversion Behavior of Investors. *Wang, J.*, +, *TCSS Feb. 2019 73-81*

## Autoregressive moving average processes

Forecasting Horticultural Products Price Using ARIMA Model and Neural Network Based on a Large-Scale Data Set Collected by Web Crawler. *Weng, Y.*, +, *TCSS June 2019 547-553*

## B

## Backpropagation

Forecasting Horticultural Products Price Using ARIMA Model and Neural Network Based on a Large-Scale Data Set Collected by Web Crawler. *Weng, Y.*, +, *TCSS June 2019 547-553*

## Bank data processing

A Rhombic Dodecahedron Topology for Human-Centric Banking Big Data. *Wang, H.*, +, *TCSS Oct. 2019 1095-1105*

## Bayes methods

A Novel Stream Clustering Framework for Spam Detection in Twitter. *Tajalizadeh, H.*, +, *TCSS June 2019 525-534*

**Behavioral sciences**

A One-Third Advice Rule Based on a Control-Theoretic Opinion Dynamics Model. *Luo, Y.*, +, *TCSS June 2019 576-581*

Modeling Behavioral Response to Vaccination Using Public Goods Game. *Soltanolkottabi, M.*, +, *TCSS April 2019 268-276*

**Behavioral sciences computing**

Analysis of Hospitalizing Behaviors Based on Big Trajectory Data. *Wang, Y.*, +, *TCSS Aug. 2019 692-701*

Crowd Behavior Evolution With Emotional Contagion in Political Rallies. *Lv, P.*, +, *TCSS April 2019 377-386*

Fusing Behavioral Projection Models for Identity Theft Detection in Online Social Networks. *Wang, C.*, +, *TCSS Aug. 2019 637-648*

Quality of Experience Under a Prospect Theoretic Perspective: A Cultural Heritage Space Use Case. *Thanou, A.*, +, *TCSS Feb. 2019 135-148*

SocInf: Membership Inference Attacks on Social Media Health Data With Machine Learning. *Liu, G.*, +, *TCSS Oct. 2019 907-921*

**Belief networks**

An Overview of Unsupervised Deep Feature Representation for Text Categorization. *Wang, S.*, +, *TCSS June 2019 504-517*

Conditional Coordination Games on Cyclic Social Influence Networks. *Stirling, W.C.*, *TCSS April 2019 250-267*

User Rating Classification via Deep Belief Network Learning and Sentiment Analysis. *Chen, R.*, +, *TCSS June 2019 535-546*

**Beverage industry**

Adopter Community Formation Accelerated by Repeaters of Product Advertisement Campaigns. *Oida, K.*, +, *TCSS Feb. 2019 56-72*

**Bibliometrics**

The Evolution of Turing Award Collaboration Network: Bibliometric-Level and Network-Level Metrics. *Kong, X.*, +, *TCSS Dec. 2019 1318-1328*

**Big Data**

A Rhombic Dodecahedron Topology for Human-Centric Banking Big Data. *Wang, H.*, +, *TCSS Oct. 2019 1095-1105*

Analysis of Hospitalizing Behaviors Based on Big Trajectory Data. *Wang, Y.*, +, *TCSS Aug. 2019 692-701*

Blockchain Enabled Industrial Internet of Things Technology. *Zhao, S.*, +, *TCSS Dec. 2019 1442-1453*

COOC: Visual Exploration of Co-Occurrence Mobility Patterns in Urban Scenarios. *Kong, X.*, +, *TCSS June 2019 403-413*

Social Recommendation With Large-Scale Group Decision-Making for Cyber-Enabled Online Service. *Zhou, X.*, +, *TCSS Oct. 2019 1073-1082*

**Blockchain**

A Blockchain-Powered Crowdsourcing Method With Privacy Preservation in Mobile Environment. *Xu, X.*, +, *TCSS Dec. 2019 1407-1419*

Application of Blockchain in Collaborative Internet-of-Things Services. *Xu, L.D.*, +, *TCSS Dec. 2019 1295-1305*

BCOSN: A Blockchain-Based Decentralized Online Social Network. *Jiang, L.*, +, *TCSS Dec. 2019 1454-1466*

Blockchain and Internet of Things for Modern Business Process in Digital Economy—the State of the Art. *Viriyasitavat, W.*, +, *TCSS Dec. 2019 1420-1432*

Blockchain Enabled Industrial Internet of Things Technology. *Zhao, S.*, +, *TCSS Dec. 2019 1442-1453*

Blockchain-Based Digital Forensics Investigation Framework in the Internet of Things and Social Systems. *Li, S.*, +, *TCSS Dec. 2019 1433-1441*

Blockchain-Based Trust Mechanism for IoT-Based Smart Manufacturing System. *Zhang, Y.*, +, *TCSS Dec. 2019 1386-1394*

Decentralized On-Demand Energy Supply for Blockchain in Internet of Things: A Microgrids Approach. *Li, J.*, +, *TCSS Dec. 2019 1395-1406*

Guest Editorial Special Issue on Blockchain-Based Secure and Trusted Computing for IoT. *Li, S.*, +, *TCSS Dec. 2019 1369-1372*

Managing QoS of Internet-of-Things Services Using Blockchain. *Viriyasitavat, W.*, +, *TCSS Dec. 2019 1357-1368*

SCTSC: A Semicentralized Traffic Signal Control Mode With Attribute-Based Blockchain in IoVs. *Cheng, L.*, +, *TCSS Dec. 2019 1373-1385*

**Boltzmann machines**

An Overview of Unsupervised Deep Feature Representation for Text Categorization. *Wang, S.*, +, *TCSS June 2019 504-517*

**Business**

Blockchain Enabled Industrial Internet of Things Technology. *Zhao, S.*, +, *TCSS Dec. 2019 1442-1453*

**Business process management**

Blockchain and Internet of Things for Modern Business Process in Digital Economy—the State of the Art. *Viriyasitavat, W.*, +, *TCSS Dec. 2019 1420-1432*

**C****Cancer**

Association Rule-Based Breast Cancer Prevention and Control System. *Li, A.*, +, *TCSS Oct. 2019 1106-1114*

**Cinematography**

Analysis of Adapted Films and Stories Based on Social Network. *Chowdhury, T.*, +, *TCSS Oct. 2019 858-869*

**Classification**

User Rating Classification via Deep Belief Network Learning and Sentiment Analysis. *Chen, R.*, +, *TCSS June 2019 535-546*

**Cloud computing**

Association Rule-Based Breast Cancer Prevention and Control System. *Li, A.*, +, *TCSS Oct. 2019 1106-1114*

Blockchain-Based Digital Forensics Investigation Framework in the Internet of Things and Social Systems. *Li, S.*, +, *TCSS Dec. 2019 1433-1441*

Content Retrieval Based on Vehicular Cloud in Internet of Vehicles. *Wang, X.*, +, *TCSS June 2019 582-591*

Quality-Aware Sparse Data Collection in MEC-Enhanced Mobile Crowdsensing Systems. *Xia, X.*, +, *TCSS Oct. 2019 1051-1062*

SocInf: Membership Inference Attacks on Social Media Health Data With Machine Learning. *Liu, G.*, +, *TCSS Oct. 2019 907-921*

**Clustering algorithms**

*k*-Context Technique: A Method for Identifying Dense Subgraphs in a Heterogeneous Information Network. *Barman, D.*, +, *TCSS Dec. 2019 1190-1205*

Particle Subswarms Collaborative Clustering. *Census, C.*, +, *TCSS Dec. 2019 1165-1179*

STCS Lexicon: Spectral-Clustering-Based Topic-Specific Chinese Sentiment Lexicon Construction for Social Networks. *Zhang, B.*, +, *TCSS Dec. 2019 1180-1189*

**Cognition**

Joint Task Difficulties Estimation and Testees Ranking for Intelligence Evaluation. *Zhang, C.*, +, *TCSS April 2019 221-226*

**Collaboration**

Application of Blockchain in Collaborative Internet-of-Things Services. *Xu, L.D.*, +, *TCSS Dec. 2019 1295-1305*

Blockchain-Based Trust Mechanism for IoT-Based Smart Manufacturing System. *Zhang, Y.*, +, *TCSS Dec. 2019 1386-1394*

Particle Subswarms Collaborative Clustering. *Census, C.*, +, *TCSS Dec. 2019 1165-1179*

The Evolution of Turing Award Collaboration Network: Bibliometric-Level and Network-Level Metrics. *Kong, X.*, +, *TCSS Dec. 2019 1318-1328*

**Collaborative filtering**

HiRecS: A Hierarchical Contextual Location Recommendation System. *Baral, R.*, +, *TCSS Oct. 2019 1020-1037*

**Complex networks**

A Distributed Spatiotemporal Contingency Analysis for the Lebanese Power Grid. *Abu Salem, F.K.*, +, *TCSS Feb. 2019 162-175*

A Novel Hybrid-Jump-Based Sampling Method for Complex Social Networks. *Liu, L.*, +, *TCSS April 2019 241-249*

Competition and Cooperation: Dynamical Interplay Diffusion Between Social Topic Multiple Messages in Multiplex Networks. *Li, Q.*, +, *TCSS June 2019 467-478*

Effect of NO<sub>2</sub> on O<sub>3</sub> Using Complex Network Topology Analysis. *Zhang, Q.*, +, *TCSS Dec. 2019 1329-1342*

GA-Based Q-Attack on Community Detection. *Chen, J.*, +, *TCSS June 2019 491-503*

**Computational complexity**

A Novel Stream Clustering Framework for Spam Detection in Twitter. *Tajalizadeh, H.*, +, *TCSS June 2019 525-534*



- BEEF: Balanced English Explanations of Forecasts. *Grover, S., +, TCSS April 2019 350-364*
- Marginal Gains to Maximize Content Spread in Social Networks. *Yang, W., +, TCSS June 2019 479-490*
- Maximizing Activity Profit in Social Networks. *Yang, W., +, TCSS Feb. 2019 117-126*
- Computational geometry**
- Discovering Transit-Oriented Development Regions of Megacities Using Heterogeneous Urban Data. *Kong, X., +, TCSS Oct. 2019 943-955*
- Computational modeling**
- Behind the Mask: Understanding the Structural Forces That Make Social Graphs Vulnerable to Deanonimization. *Horawalavithana, S., +, TCSS Dec. 2019 1343-1356*
- Guest Editorial Special Issue on Parallel and Distributed Processing for Computational Social Systems. *Santos, E.E., +, TCSS Feb. 2019 176-177*
- Influence Maximization From Cascade Information Traces in Complex Networks in the Absence of Network Structure. *Kolli, N., +, TCSS Dec. 2019 1147-1155*
- Computer architecture**
- A Novel Intrusion Detection and Prevention Scheme for Network Coding-Enabled Mobile Small Cells. *Parsamehr, R., +, TCSS Dec. 2019 1467-1477*
- Computer crime**
- Fusing Behavioral Projection Models for Identity Theft Detection in Online Social Networks. *Wang, C., +, TCSS Aug. 2019 637-648*
- Computer games**
- Conversational Networks for Automatic Online Moderation. *Papegnies, E., +, TCSS Feb. 2019 38-55*
- Computer network security**
- Decentralized Autonomous Organizations: Concept, Model, and Applications. *Wang, S., +, TCSS Oct. 2019 870-878*
- GA-Based Q-Attack on Community Detection. *Chen, J., +, TCSS June 2019 491-503*
- Computer science**
- A Large-Scale Study of the Twitter Follower Network to Characterize the Spread of Prescription Drug Abuse Tweets. *Sequeira, R., +, TCSS Dec. 2019 1232-1244*
- Corrections to “Fractal Intelligent Privacy Protection in Online Social Network Using Attribute-Based Encryption Schemes”. *Wei, W., +, TCSS Feb. 2019 189*
- Corrections to “Requirements Socio-Technical Graphs for Managing Practitioners’ Traceability Questions”. *Niu, N., +, TCSS Feb. 2019 190*
- The Evolution of Turing Award Collaboration Network: Bibliometric-Level and Network-Level Metrics. *Kong, X., +, TCSS Dec. 2019 1318-1328*
- Computer vision**
- An Overview of Unsupervised Deep Feature Representation for Text Categorization. *Wang, S., +, TCSS June 2019 504-517*
- Content-based retrieval**
- Filtering Instagram Hashtags Through Crowdtaging and the HITS Algorithm. *Giannoulakis, S., +, TCSS June 2019 592-603*
- Contracts**
- Decentralized Autonomous Organizations: Concept, Model, and Applications. *Wang, S., +, TCSS Oct. 2019 870-878*
- Convergence**
- Community Detection Based on Symbiotic Organisms Search and Neighborhood Information. *Xiao, J., +, TCSS Dec. 2019 1257-1272*
- Convolutional neural nets**
- Multi-Modality Behavioral Influence Analysis for Personalized Recommendations in Health Social Media Environment. *Zhou, X., +, TCSS Oct. 2019 888-897*
- Correlation**
- An Analysis of the Internal Organization of Facebook Groups. *De Salve, A., +, TCSS Dec. 2019 1245-1256*
- Effect of NO<sub>2</sub> on O<sub>3</sub> Using Complex Network Topology Analysis. *Zhang, Q., +, TCSS Dec. 2019 1329-1342*
- The Evolution of Turing Award Collaboration Network: Bibliometric-Level and Network-Level Metrics. *Kong, X., +, TCSS Dec. 2019 1318-1328*
- Cost-benefit analysis**
- A Two-Stage Intervened Decision System With State-Dependent Random Inspection Mechanisms. *Lin, T., +, TCSS April 2019 365-376*
- Crawlers**
- A Large-Scale Study of the Twitter Follower Network to Characterize the Spread of Prescription Drug Abuse Tweets. *Sequeira, R., +, TCSS Dec. 2019 1232-1244*
- Crowdsourcing**
- A Blockchain-Powered Crowdsourcing Method With Privacy Preservation in Mobile Environment. *Xu, X., +, TCSS Dec. 2019 1407-1419*
- An Optimization and Auction-Based Incentive Mechanism to Maximize Social Welfare for Mobile Crowdsourcing. *Wang, Y., +, TCSS June 2019 414-429*
- Filtering Instagram Hashtags Through Crowdtaging and the HITS Algorithm. *Giannoulakis, S., +, TCSS June 2019 592-603*
- Cryptocurrencies**
- A Fair Blockchain Based on Proof of Credit. *Han, X., +, TCSS Oct. 2019 922-931*
- Decentralized Autonomous Organizations: Concept, Model, and Applications. *Wang, S., +, TCSS Oct. 2019 870-878*
- Cryptographic protocols**
- A Fair Blockchain Based on Proof of Credit. *Han, X., +, TCSS Oct. 2019 922-931*
- Cryptography**
- New Blockchain-Based Architecture for Service Interoperations in Internet of Things. *Viriyasitavat, W., +, TCSS Aug. 2019 739-748*
- Cultural aspects**
- Cross-Cultural Studies Using Social Networks Data. *Annamoradnejad, I., +, TCSS Aug. 2019 627-636*
- Cultural differences**
- Signs of Heritage—An Agent-Based Model of the Dynamics of Heritage Categories. *Almeida, R.N., +, TCSS Dec. 2019 1283-1294*
- Customer relationship management**
- STCS Lexicon: Spectral-Clustering-Based Topic-Specific Chinese Sentiment Lexicon Construction for Social Networks. *Zhang, B., +, TCSS Dec. 2019 1180-1189*
- Cyber-physical systems**
- New Blockchain-Based Architecture for Service Interoperations in Internet of Things. *Viriyasitavat, W., +, TCSS Aug. 2019 739-748*

## D

### Dairying

Leveraging Social Network Analysis for Characterizing Cohesion of Human-Managed Animals. *Vimalajeewa, D., +, TCSS April 2019 323-337*

### Data aggregation

HiRecS: A Hierarchical Contextual Location Recommendation System. *Baral, R., +, TCSS Oct. 2019 1020-1037*

### Data analysis

Analysis of Hospitalizing Behaviors Based on Big Trajectory Data. *Wang, Y., +, TCSS Aug. 2019 692-701*

Assessing Refugees’ Integration via Spatio-Temporal Similarities of Mobility and Calling Behaviors. *Alfeo, A.L., +, TCSS Aug. 2019 726-738*

Blockchain-Based Digital Forensics Investigation Framework in the Internet of Things and Social Systems. *Li, S., +, TCSS Dec. 2019 1433-1441*

Editorial Versus Audience Gatekeeping: Analyzing News Selection and Consumption Dynamics in Online News Media. *Chakraborty, A., +, TCSS Aug. 2019 680-691*

Temporal Sequence of Retweets Help to Detect Influential Nodes in Social Networks. *Bhowmick, A.K., +, TCSS June 2019 441-455*

### Data collection

A Large-Scale Study of the Twitter Follower Network to Characterize the Spread of Prescription Drug Abuse Tweets. *Sequeira, R., +, TCSS Dec. 2019 1232-1244*

### Data dissemination

Mobile Edge Aided Data Dissemination for Wireless Healthcare Systems. *Shu, C., +, TCSS Oct. 2019 898-906*

**Data handling**

Forecasting Horticultural Products Price Using ARIMA Model and Neural Network Based on a Large-Scale Data Set Collected by Web Crawler. *Weng, Y.*, +, *TCSS June 2019 547-553*

**Data mining**

*k*-Context Technique: A Method for Identifying Dense Subgraphs in a Heterogeneous Information Network. *Barman, D.*, +, *TCSS Dec. 2019 1190-1205*

A Fair Blockchain Based on Proof of Credit. *Han, X.*, +, *TCSS Oct. 2019 922-931*

A Novel Stream Clustering Framework for Spam Detection in Twitter. *Tajalizadeh, H.*, +, *TCSS June 2019 525-534*

A Rhombic Dodecahedron Topology for Human-Centric Banking Big Data. *Wang, H.*, +, *TCSS Oct. 2019 1095-1105*

Assessing Refugees' Integration via Spatio-Temporal Similarities of Mobility and Calling Behaviors. *Alfeo, A.L.*, +, *TCSS Aug. 2019 726-738*

Association Rule-Based Breast Cancer Prevention and Control System. *Li, A.*, +, *TCSS Oct. 2019 1106-1114*

Competition and Cooperation: Dynamical Interplay Diffusion Between Social Topic Multiple Messages in Multiplex Networks. *Li, Q.*, +, *TCSS June 2019 467-478*

COOC: Visual Exploration of Co-Occurrence Mobility Patterns in Urban Scenarios. *Kong, X.*, +, *TCSS June 2019 403-413*

Filtering Instagram Hashtags Through Crowdtaging and the HITS Algorithm. *Giannoulakis, S.*, +, *TCSS June 2019 592-603*

Human-Centric Cyber Social Computing Model for Hot-Event Detection and Propagation. *Shi, L.*, +, *TCSS Oct. 2019 1042-1050*

MPURank: A Social Hotspot Tracking Scheme Based on Tripartite Graph and Multimessages Iterative Driven. *Xiao, Y.*, +, *TCSS Aug. 2019 715-725*

Tweet Summarization of News Articles: An Objective Ordering-Based Perspective. *Chakraborty, R.*, +, *TCSS Aug. 2019 761-777*

**Data models**

Behind the Mask: Understanding the Structural Forces That Make Social Graphs Vulnerable to Deanonimization. *Horawalavithana, S.*, +, *TCSS Dec. 2019 1343-1356*

Guest Editorial: Special Issue on Human-Centric Cyber Social Computing. *Jin, Q.*, +, *TCSS Oct. 2019 1038-1041*

Influence Maximization From Cascade Information Traces in Complex Networks in the Absence of Network Structure. *Kolli, N.*, +, *TCSS Dec. 2019 1147-1155*

STCS Lexicon: Spectral-Clustering-Based Topic-Specific Chinese Sentiment Lexicon Construction for Social Networks. *Zhang, B.*, +, *TCSS Dec. 2019 1180-1189*

Thread Structure Learning on Online Health Forums With Partially Labeled Data. *Liu, Y.*, +, *TCSS Dec. 2019 1273-1282*

**Data privacy**

A Blockchain-Powered Crowdsourcing Method With Privacy Preservation in Mobile Environment. *Xu, X.*, +, *TCSS Dec. 2019 1407-1419*

Anonymization in Online Social Networks Based on Enhanced Equi-Cardinal Clustering. *Siddula, M.*, +, *TCSS Aug. 2019 809-820*

Behind the Mask: Understanding the Structural Forces That Make Social Graphs Vulnerable to Deanonimization. *Horawalavithana, S.*, +, *TCSS Dec. 2019 1343-1356*

GA-Based Q-Attack on Community Detection. *Chen, J.*, +, *TCSS June 2019 491-503*

Particle Subswarms Collaborative Clustering. *Census, C.*, +, *TCSS Dec. 2019 1165-1179*

Quality-Aware Sparse Data Collection in MEC-Enhanced Mobile Crowdsensing Systems. *Xia, X.*, +, *TCSS Oct. 2019 1051-1062*

SocInf: Membership Inference Attacks on Social Media Health Data With Machine Learning. *Liu, G.*, +, *TCSS Oct. 2019 907-921*

**Data structures**

MultiSpectralNet: Spectral Clustering Using Deep Neural Network for Multi-View Data. *Huang, S.*, +, *TCSS Aug. 2019 749-760*

Particle Subswarms Collaborative Clustering. *Census, C.*, +, *TCSS Dec. 2019 1165-1179*

**Data visualization**

COOC: Visual Exploration of Co-Occurrence Mobility Patterns in Urban Scenarios. *Kong, X.*, +, *TCSS June 2019 403-413*

FBVA: A Flow-Based Visual Analytics Approach for Citywide Crowd Mobility. *Luo, X.*, +, *TCSS April 2019 277-288*

**Decision making**

A Feedback Mechanism With Bounded Confidence- Based Optimization Approach for Consensus Reaching in Multiple Attribute Large-Scale Group Decision-Making. *Zha, Q.*, +, *TCSS Oct. 2019 994-1006*

A One-Third Advice Rule Based on a Control-Theoretic Opinion Dynamics Model. *Luo, Y.*, +, *TCSS June 2019 576-581*

A Two-Stage Intervened Decision System With State-Dependent Random Inspection Mechanisms. *Lin, T.*, +, *TCSS April 2019 365-376*

Analytic Models of Roll Call Voting Dynamics. *Magelinski, T.*, +, *TCSS Oct. 2019 932-942*

Conditional Coordination Games on Cyclic Social Influence Networks. *Stirling, W.C.*, *TCSS April 2019 250-267*

Social Recommendation With Large-Scale Group Decision-Making for Cyber-Enabled Online Service. *Zhou, X.*, +, *TCSS Oct. 2019 1073-1082*

**Detection algorithms**

Community Detection Based on Symbiotic Organisms Search and Neighborhood Information. *Xiao, J.*, +, *TCSS Dec. 2019 1257-1272*

**Device-to-device communication**

A Blockchain-Powered Crowdsourcing Method With Privacy Preservation in Mobile Environment. *Xu, X.*, +, *TCSS Dec. 2019 1407-1419*

**Dictionaries**

STCS Lexicon: Spectral-Clustering-Based Topic-Specific Chinese Sentiment Lexicon Construction for Social Networks. *Zhang, B.*, +, *TCSS Dec. 2019 1180-1189*

**Differential equations**

Analytic Models of Roll Call Voting Dynamics. *Magelinski, T.*, +, *TCSS Oct. 2019 932-942*

**Digital forensics**

Blockchain-Based Digital Forensics Investigation Framework in the Internet of Things and Social Systems. *Li, S.*, +, *TCSS Dec. 2019 1433-1441*

**Directed graphs**

Anonymization in Online Social Networks Based on Enhanced Equi-Cardinal Clustering. *Siddula, M.*, +, *TCSS Aug. 2019 809-820*

Centrality Analysis in *d*-Regular Directed Acyclic Random Networks and Its Applications in Top-*k* Recommendations. *Lu, P.*, +, *TCSS Oct. 2019 968-980*

**Disasters**

Extracting Resource Needs and Availabilities From Microblogs for Aiding Post-Disaster Relief Operations. *Basu, M.*, +, *TCSS June 2019 604-618*

Summarizing Situational Tweets in Crisis Scenarios: An Extractive-Abstractive Approach. *Rudra, K.*, +, *TCSS Oct. 2019 981-993*

**Diseases**

A Unified Framework of Epidemic Spreading Prediction by Empirical Mode Decomposition- Based Ensemble Learning Techniques. *Feng, Y.*, +, *TCSS Aug. 2019 660-669*

Crowd Behavior Evolution With Emotional Contagion in Political Rallies. *Lv, P.*, +, *TCSS April 2019 377-386*

Modeling Behavioral Response to Vaccination Using Public Goods Game. *Soltanolkotabi, M.*, +, *TCSS April 2019 268-276*

**Distributed databases**

A Fair Blockchain Based on Proof of Credit. *Han, X.*, +, *TCSS Oct. 2019 922-931*

Decentralized Autonomous Organizations: Concept, Model, and Applications. *Wang, S.*, +, *TCSS Oct. 2019 870-878*

New Blockchain-Based Architecture for Service Interoperations in Internet of Things. *Viriyasitavat, W.*, +, *TCSS Aug. 2019 739-748*

Particle Subswarms Collaborative Clustering. *Census, C.*, +, *TCSS Dec. 2019 1165-1179*

**Distributed processing**

Guest Editorial Special Issue on Parallel and Distributed Processing for Computational Social Systems. *Santos, E.E.*, +, *TCSS Feb. 2019 176-177*

**Drugs**

A Large-Scale Study of the Twitter Follower Network to Characterize the Spread of Prescription Drug Abuse Tweets. *Sequeira, R., +, TCSS Dec. 2019 1232-1244*

**E****Economics**

Minimizing Misinformation Profit in Social Networks. *Chen, T., +, TCSS Dec. 2019 1206-1218*

Signs of Heritage—An Agent-Based Model of the Dynamics of Heritage Categories. *Almeida, R.N., +, TCSS Dec. 2019 1283-1294*

**Econophysics**

A Social Computing-Based Analysis on Monogamous Marriage of Human. *Cai, N., +, TCSS June 2019 518-524*

**Education**

Corrections to “Fractal Intelligent Privacy Protection in Online Social Network Using Attribute-Based Encryption Schemes”. *Wei, W., +, TCSS Feb. 2019 189*

**Educational administrative data processing**

Academic Team Formulation Based on Liebig’s Barrel: Discovery of Anticask Effect. *Yu, S., +, TCSS Oct. 2019 1083-1094*

**Eigenvalues and eigenfunctions**

MultiSpectralNet: Spectral Clustering Using Deep Neural Network for Multi-View Data. *Huang, S., +, TCSS Aug. 2019 749-760*

**Electronic commerce**

An Optimization and Auction-Based Incentive Mechanism to Maximize Social Welfare for Mobile Crowdsourcing. *Wang, Y., +, TCSS June 2019 414-429*

New Retail Business Analysis and Modeling: A Taobao Case Study. *Yin, Y., +, TCSS Oct. 2019 1126-1137*

**Electronic money**

Digital Currency Design for Sustainable Active Debris Removal in Space. *Saito, K., +, TCSS Feb. 2019 127-134*

**Emergency management**

Extracting Resource Needs and Availabilities From Microblogs for Aiding Post-Disaster Relief Operations. *Basu, M., +, TCSS June 2019 604-618*

Pedestrian Evacuation With Herding Behavior in the View-Limited Condition. *Meng, Q., +, TCSS June 2019 567-575*

**Emergency services**

Pedestrian Evacuation With Herding Behavior in the View-Limited Condition. *Meng, Q., +, TCSS June 2019 567-575*

**Emotion recognition**

Crowd Behavior Evolution With Emotional Contagion in Political Rallies. *Ly, P., +, TCSS April 2019 377-386*

**Encryption**

BCOSN: A Blockchain-Based Decentralized Online Social Network. *Jiang, L., +, TCSS Dec. 2019 1454-1466*

Corrections to “Fractal Intelligent Privacy Protection in Online Social Network Using Attribute-Based Encryption Schemes”. *Wei, W., +, TCSS Feb. 2019 189*

SCTSC: A Semicentralized Traffic Signal Control Mode With Attribute-Based Blockchain in IoVs. *Cheng, L., +, TCSS Dec. 2019 1373-1385*

**Energy consumption**

Decentralized On-Demand Energy Supply for Blockchain in Internet of Things: A Microgrids Approach. *Li, J., +, TCSS Dec. 2019 1395-1406*

**Entropy**

Leveraging Social Network Analysis for Characterizing Cohesion of Human-Managed Animals. *Vimalajeewa, D., +, TCSS April 2019 323-337*

**Epidemics**

A Unified Framework of Epidemic Spreading Prediction by Empirical Mode Decomposition- Based Ensemble Learning Techniques. *Feng, Y., +, TCSS Aug. 2019 660-669*

Modeling Behavioral Response to Vaccination Using Public Goods Game. *Soltanolkottabi, M., +, TCSS April 2019 268-276*

**Expectation-maximization algorithms**

GDTM: A Gaussian Dynamic Topic Model for Forwarding Prediction Under Complex Mechanisms. *Li, Q., +, TCSS April 2019 338-349*

+ Check author entry for coauthors

**F****Facebook**

An Analysis of the Internal Organization of Facebook Groups. *De Salve, A., +, TCSS Dec. 2019 1245-1256*

**Fault tolerance**

Application of Blockchain in Collaborative Internet-of-Things Services. *Xu, L.D., +, TCSS Dec. 2019 1295-1305*

**Fault tolerant computing**

New Blockchain-Based Architecture for Service Interoperations in Internet of Things. *Viriyasitavat, W., +, TCSS Aug. 2019 739-748*

**Feature extraction**

A Fuzzy Approach to Text Classification With Two-Stage Training for Ambiguous Instances. *Liu, H., +, TCSS April 2019 227-240*

An Overview of Unsupervised Deep Feature Representation for Text Categorization. *Wang, S., +, TCSS June 2019 504-517*

Conversational Networks for Automatic Online Moderation. *Papegnies, E., +, TCSS Feb. 2019 38-55*

Cross-Cultural Studies Using Social Networks Data. *Annamoradnejad, I., +, TCSS Aug. 2019 627-636*

Extracting Resource Needs and Availabilities From Microblogs for Aiding Post-Disaster Relief Operations. *Basu, M., +, TCSS June 2019 604-618*

Is My Interface Beautiful?—A Computational Model-Based Approach. *Maity, R., +, TCSS Feb. 2019 149-161*

Multi-Modality Behavioral Influence Analysis for Personalized Recommendations in Health Social Media Environment. *Zhou, X., +, TCSS Oct. 2019 888-897*

Thread Structure Learning on Online Health Forums With Partially Labeled Data. *Liu, Y., +, TCSS Dec. 2019 1273-1282*

**Feature selection**

A Fuzzy Approach to Text Classification With Two-Stage Training for Ambiguous Instances. *Liu, H., +, TCSS April 2019 227-240*

Editorial Versus Audience Gatekeeping: Analyzing News Selection and Consumption Dynamics in Online News Media. *Chakraborty, A., +, TCSS Aug. 2019 680-691*

**Finance**

A Two-Stage Intervened Decision System With State-Dependent Random Inspection Mechanisms. *Lin, T., +, TCSS April 2019 365-376*

Blockchain-Based Trust Mechanism for IoT-Based Smart Manufacturing System. *Zhang, Y., +, TCSS Dec. 2019 1386-1394*

**Forecasting theory**

Forecasting Horticultural Products Price Using ARIMA Model and Neural Network Based on a Large-Scale Data Set Collected by Web Crawler. *Weng, Y., +, TCSS June 2019 547-553*

**Fractals**

Corrections to “Fractal Intelligent Privacy Protection in Online Social Network Using Attribute-Based Encryption Schemes”. *Wei, W., +, TCSS Feb. 2019 189*

**Frequency measurement**

An Analysis of the Internal Organization of Facebook Groups. *De Salve, A., +, TCSS Dec. 2019 1245-1256*

**Fuzzy set theory**

A Fuzzy Approach to Text Classification With Two-Stage Training for Ambiguous Instances. *Liu, H., +, TCSS April 2019 227-240*

Type-2 Fuzzy Comprehension Evaluation for Tourist Attractive Competency. *Mo, H., +, TCSS Feb. 2019 96-102*

**G****Game theory**

Conditional Coordination Games on Cyclic Social Influence Networks. *Stirling, W.C., TCSS April 2019 250-267*

Modeling Behavioral Response to Vaccination Using Public Goods Game. *Soltanolkottabi, M., +, TCSS April 2019 268-276*

Quality of Experience Under a Prospect Theoretic Perspective: A Cultural Heritage Space Use Case. *Thanou, A., +, TCSS Feb. 2019 135-148*

**Gaussian distribution**

GDTM: A Gaussian Dynamic Topic Model for Forwarding Prediction Under Complex Mechanisms. *Li, Q., +, TCSS April 2019 338-349*

Providing Appropriate Social Support to Prevention of Depression for Highly Anxious Sufferers. *Hao, F., +, TCSS Oct. 2019 879-887*

#### Genetic algorithms

GA-Based Q-Attack on Community Detection. *Chen, J., +, TCSS June 2019 491-503*

Multiperiod Asset Allocation Considering Dynamic Loss Aversion Behavior of Investors. *Wang, J., +, TCSS Feb. 2019 73-81*

#### Geographic information systems

FBVA: A Flow-Based Visual Analytics Approach for Citywide Crowd Mobility. *Luo, X., +, TCSS April 2019 277-288*

#### Gesture recognition

Hierarchical Posture Representation for Robust Action Recognition. *Chen, Y., +, TCSS Oct. 2019 1115-1125*

#### Graph theory

A Distributed Spatiotemporal Contingency Analysis for the Lebanese Power Grid. *Abu Salem, F.K., +, TCSS Feb. 2019 162-175*

A Novel Hybrid-Jump-Based Sampling Method for Complex Social Networks. *Liu, L., +, TCSS April 2019 241-249*

Analysis of Adapted Films and Stories Based on Social Network. *Chowdhury, T., +, TCSS Oct. 2019 858-869*

Detecting and Mitigating Points of Failure in Community Networks: A Graph-Based Approach. *Maccari, L., TCSS Feb. 2019 103-116*

Filtering Instagram Hashtags Through Crowdtaging and the HITS Algorithm. *Giannoulakis, S., +, TCSS June 2019 592-603*

Finding All You Need: Web APIs Recommendation in Web of Things Through Keywords Search. *Qi, L., +, TCSS Oct. 2019 1063-1072*

Finding Emergent Patterns of Behaviors in Dynamic Heterogeneous Social Networks. *Hung, B.W.K., +, TCSS Oct. 2019 1007-1019*

GA-Based Q-Attack on Community Detection. *Chen, J., +, TCSS June 2019 491-503*

GDTM: A Gaussian Dynamic Topic Model for Forwarding Prediction Under Complex Mechanisms. *Li, Q., +, TCSS April 2019 338-349*

Impact of Social Network Structures on Uncertain Opinion Formation. *Zhan, M., +, TCSS Aug. 2019 670-679*

Leveraging Social Network Analysis for Characterizing Cohesion of Human-Managed Animals. *Vimalajeewa, D., +, TCSS April 2019 323-337*

Maximizing Activity Profit in Social Networks. *Yang, W., +, TCSS Feb. 2019 117-126*

MPURank: A Social Hotspot Tracking Scheme Based on Tripartite Graph and Multimessages Iterative Driven. *Xiao, Y., +, TCSS Aug. 2019 715-725*

MultiSpectralNet: Spectral Clustering Using Deep Neural Network for Multi-View Data. *Huang, S., +, TCSS Aug. 2019 749-760*

Social Recommendation With Large-Scale Group Decision-Making for Cyber-Enabled Online Service. *Zhou, X., +, TCSS Oct. 2019 1073-1082*

Summarizing Situational Tweets in Crisis Scenarios: An Extractive-Abstractive Approach. *Rudra, K., +, TCSS Oct. 2019 981-993*

#### Greedy algorithms

A Novel Scene of Viral Marketing for Complementary Products. *Guo, J., +, TCSS Aug. 2019 797-808*

Identify Connected Positive Influence Dominating Set in Social Networks Using Two-Hop Coverage. *Du, H., +, TCSS Oct. 2019 956-967*

Minimizing Misinformation Profit in Social Networks. *Chen, T., +, TCSS Dec. 2019 1206-1218*

#### Groupware

Sustainable Collaborator Recommendation Based on Conference Closure. *Wang, W., +, TCSS April 2019 311-322*

## H

#### Health care

Analysis of Hospitalizing Behaviors Based on Big Trajectory Data. *Wang, Y., +, TCSS Aug. 2019 692-701*

Mobile Edge Aided Data Dissemination for Wireless Healthcare Systems. *Shu, C., +, TCSS Oct. 2019 898-906*

Multi-Modality Behavioral Influence Analysis for Personalized Recommendations in Health Social Media Environment. *Zhou, X., +, TCSS Oct. 2019 888-897*

#### Heterogeneous networks

*k*-Context Technique: A Method for Identifying Dense Subgraphs in a Heterogeneous Information Network. *Barman, D., +, TCSS Dec. 2019 1190-1205*

#### History

Quality of Experience Under a Prospect Theoretic Perspective: A Cultural Heritage Space Use Case. *Thanou, A., +, TCSS Feb. 2019 135-148*

#### Horticulture

Forecasting Horticultural Products Price Using ARIMA Model and Neural Network Based on a Large-Scale Data Set Collected by Web Crawler. *Weng, Y., +, TCSS June 2019 547-553*

#### Hospitals

Analysis of Hospitalizing Behaviors Based on Big Trajectory Data. *Wang, Y., +, TCSS Aug. 2019 692-701*

#### Hypermedia

Human-Centric Cyber Social Computing Model for Hot-Event Detection and Propagation. *Shi, L., +, TCSS Oct. 2019 1042-1050*

## I

#### Image annotation

Filtering Instagram Hashtags Through Crowdtaging and the HITS Algorithm. *Giannoulakis, S., +, TCSS June 2019 592-603*

#### Image classification

Is My Interface Beautiful?—A Computational Model-Based Approach. *Maity, R., +, TCSS Feb. 2019 149-161*

#### Image filtering

Filtering Instagram Hashtags Through Crowdtaging and the HITS Algorithm. *Giannoulakis, S., +, TCSS June 2019 592-603*

#### Image motion analysis

Hierarchical Posture Representation for Robust Action Recognition. *Chen, Y., +, TCSS Oct. 2019 1115-1125*

#### Image representation

Hierarchical Posture Representation for Robust Action Recognition. *Chen, Y., +, TCSS Oct. 2019 1115-1125*

#### Image retrieval

Filtering Instagram Hashtags Through Crowdtaging and the HITS Algorithm. *Giannoulakis, S., +, TCSS June 2019 592-603*

#### Incentive schemes

An Optimization and Auction-Based Incentive Mechanism to Maximize Social Welfare for Mobile Crowdsourcing. *Wang, Y., +, TCSS June 2019 414-429*

#### Industries

Blockchain Enabled Industrial Internet of Things Technology. *Zhao, S., +, TCSS Dec. 2019 1442-1453*

#### Inference algorithms

Influence Maximization From Cascade Information Traces in Complex Networks in the Absence of Network Structure. *Kolli, N., +, TCSS Dec. 2019 1147-1155*

#### Inference mechanisms

SocInf: Membership Inference Attacks on Social Media Health Data With Machine Learning. *Liu, G., +, TCSS Oct. 2019 907-921*

#### Information analysis

Centrality Analysis in *d*-Regular Directed Acyclic Random Networks and Its Applications in Top-*k* Recommendations. *Lu, P., +, TCSS Oct. 2019 968-980*

#### Information dissemination

Temporal Sequence of Retweets Help to Detect Influential Nodes in Social Networks. *Bhowmick, A.K., +, TCSS June 2019 441-455*

#### Information filtering

PersoNet: Friend Recommendation System Based on Big-Five Personality Traits and Hybrid Filtering. *Ning, H., +, TCSS June 2019 394-402*

#### Information retrieval

Cross-Cultural Studies Using Social Networks Data. *Annamoradnejad, I., +, TCSS Aug. 2019 627-636*

Extracting Resource Needs and Availabilities From Microblogs for Aiding Post-Disaster Relief Operations. *Basu, M., +, TCSS June 2019 604-618*

GDTM: A Gaussian Dynamic Topic Model for Forwarding Prediction Under Complex Mechanisms. *Li, Q., +, TCSS April 2019 338-349*

**Information technology**

Association Rule-Based Breast Cancer Prevention and Control System. *Li, A., +, TCSS Oct. 2019 1106-1114*

Corrections to “Requirements Socio-Technical Graphs for Managing Practitioners’ Traceability Questions”. *Niu, N., +, TCSS Feb. 2019 190*

**Inspection**

A Two-Stage Intervened Decision System With State-Dependent Random Inspection Mechanisms. *Lin, T., +, TCSS April 2019 365-376*

**Instruction sets**

Thread Structure Learning on Online Health Forums With Partially Labeled Data. *Liu, Y., +, TCSS Dec. 2019 1273-1282*

**Integer programming**

Summarizing Situational Tweets in Crisis Scenarios: An Extractive-Abstractive Approach. *Rudra, K., +, TCSS Oct. 2019 981-993*

**Integrated circuit modeling**

Group Influence Maximization Problem in Social Networks. *Zhu, J., +, TCSS Dec. 2019 1156-1164*

Influence Maximization From Cascade Information Traces in Complex Networks in the Absence of Network Structure. *Kolli, N., +, TCSS Dec. 2019 1147-1155*

Minimizing Misinformation Profit in Social Networks. *Chen, T., +, TCSS Dec. 2019 1206-1218*

**Internet**

Cross-Cultural Studies Using Social Networks Data. *Annamoradnejad, I., +, TCSS Aug. 2019 627-636*

Decentralized Autonomous Organizations: Concept, Model, and Applications. *Wang, S., +, TCSS Oct. 2019 870-878*

Detecting and Mitigating Points of Failure in Community Networks: A Graph-Based Approach. *Maccari, L., TCSS Feb. 2019 103-116*

Editorial Versus Audience Gatekeeping: Analyzing News Selection and Consumption Dynamics in Online News Media. *Chakraborty, A., +, TCSS Aug. 2019 680-691*

Finding All You Need: Web APIs Recommendation in Web of Things Through Keywords Search. *Qi, L., +, TCSS Oct. 2019 1063-1072*

New Retail Business Analysis and Modeling: A Taobao Case Study. *Yin, Y., +, TCSS Oct. 2019 1126-1137*

**Internet of Things**

Application of Blockchain in Collaborative Internet-of-Things Services. *Xu, L.D., +, TCSS Dec. 2019 1295-1305*

Blockchain and Internet of Things for Modern Business Process in Digital Economy—the State of the Art. *Viriyasitavat, W., +, TCSS Dec. 2019 1420-1432*

Blockchain Enabled Industrial Internet of Things Technology. *Zhao, S., +, TCSS Dec. 2019 1442-1453*

Blockchain-Based Digital Forensics Investigation Framework in the Internet of Things and Social Systems. *Li, S., +, TCSS Dec. 2019 1433-1441*

Content Retrieval Based on Vehicular Cloud in Internet of Vehicles. *Wang, X., +, TCSS June 2019 582-591*

Decentralized On-Demand Energy Supply for Blockchain in Internet of Things: A Microgrids Approach. *Li, J., +, TCSS Dec. 2019 1395-1406*

Guest Editorial Special Issue on Blockchain-Based Secure and Trusted Computing for IoT. *Li, S., +, TCSS Dec. 2019 1369-1372*

Managing QoS of Internet-of-Things Services Using Blockchain. *Viriyasitavat, W., +, TCSS Dec. 2019 1357-1368*

Mobile Edge Aided Data Dissemination for Wireless Healthcare Systems. *Shu, C., +, TCSS Oct. 2019 898-906*

New Blockchain-Based Architecture for Service Interoperations in Internet of Things. *Viriyasitavat, W., +, TCSS Aug. 2019 739-748*

**Intrusion detection**

A Novel Intrusion Detection and Prevention Scheme for Network Coding-Enabled Mobile Small Cells. *Parsamehr, R., +, TCSS Dec. 2019 1467-1477*

**Investments**

A Social Computing-Based Analysis on Monogamous Marriage Puzzle of Human. *Cai, N., +, TCSS June 2019 518-524*

A Two-Stage Intervened Decision System With State-Dependent Random Inspection Mechanisms. *Lin, T., +, TCSS April 2019 365-376*

Multiperiod Asset Allocation Considering Dynamic Loss Aversion Behavior of Investors. *Wang, J., +, TCSS Feb. 2019 73-81*

**Iterative methods**

MPURank: A Social Hotspot Tracking Scheme Based on Tripartite Graph and Multimessages Iterative Driven. *Xiao, Y., +, TCSS Aug. 2019 715-725*

**K****Kernel**

Topo2Vec: A Novel Node Embedding Generation Based on Network Topology for Link Prediction. *Mallick, K., +, TCSS Dec. 2019 1306-1317*

**Knapsack problems**

A Novel Scene of Viral Marketing for Complementary Products. *Guo, J., +, TCSS Aug. 2019 797-808*

**Knowledge engineering**

Influence Maximization From Cascade Information Traces in Complex Networks in the Absence of Network Structure. *Kolli, N., +, TCSS Dec. 2019 1147-1155*

The Evolution of Turing Award Collaboration Network: Bibliometric-Level and Network-Level Metrics. *Kong, X., +, TCSS Dec. 2019 1318-1328*

**L****Learning (artificial intelligence)**

A Fuzzy Approach to Text Classification With Two-Stage Training for Ambiguous Instances. *Liu, H., +, TCSS April 2019 227-240*

A Unified Framework of Epidemic Spreading Prediction by Empirical Mode Decomposition- Based Ensemble Learning Techniques. *Feng, Y., +, TCSS Aug. 2019 660-669*

Association Rule-Based Breast Cancer Prevention and Control System. *Li, A., +, TCSS Oct. 2019 1106-1114*

BEEF: Balanced English Explanations of Forecasts. *Grover, S., +, TCSS April 2019 350-364*

Is My Interface Beautiful?—A Computational Model-Based Approach. *Maity, R., +, TCSS Feb. 2019 149-161*

Joint Task Difficulties Estimation and Testees Ranking for Intelligence Evaluation. *Zhang, C., +, TCSS April 2019 221-226*

LORI: A Learning-to-Rank-Based Integration Method of Location Recommendation. *Li, J., +, TCSS June 2019 430-440*

Multi-Modality Behavioral Influence Analysis for Personalized Recommendations in Health Social Media Environment. *Zhou, X., +, TCSS Oct. 2019 888-897*

MultiSpectralNet: Spectral Clustering Using Deep Neural Network for Multi-View Data. *Huang, S., +, TCSS Aug. 2019 749-760*

PSO-ANE: Adaptive Network Embedding With Particle Swarm Optimization. *Chen, J., +, TCSS Aug. 2019 649-659*

SocInf: Membership Inference Attacks on Social Media Health Data With Machine Learning. *Liu, G., +, TCSS Oct. 2019 907-921*

User Rating Classification via Deep Belief Network Learning and Sentiment Analysis. *Chen, R., +, TCSS June 2019 535-546*

**Learning by example**

Filtering Instagram Hashtags Through Crowdtagging and the HITS Algorithm. *Giannoulakis, S., +, TCSS June 2019 592-603*

**Legislation**

Analytic Models of Roll Call Voting Dynamics. *Magelinski, T., +, TCSS Oct. 2019 932-942*

**Linear programming**

Group Influence Maximization Problem in Social Networks. *Zhu, J., +, TCSS Dec. 2019 1156-1164*

Multiobjective-Based Approach for Microblog Summarization. *Saini, N., +, TCSS Dec. 2019 1219-1231*

Summarizing Situational Tweets in Crisis Scenarios: An Extractive-Abstractive Approach. *Rudra, K., +, TCSS Oct. 2019 981-993*

**Linguistics**

Word Adoption in Online Communities. *Cole, J., +, TCSS Feb. 2019 178-188*

**Location based services**

LORI: A Learning-to-Rank-Based Integration Method of Location Recommendation. *Li, J., +, TCSS June 2019 430-440*

**Logistics**

Association Rule-Based Breast Cancer Prevention and Control System. *Li, A., +, TCSS Oct. 2019 1106-1114*

**M****Machine learning**

STCS Lexicon: Spectral-Clustering-Based Topic-Specific Chinese Sentiment Lexicon Construction for Social Networks. *Zhang, B., +, TCSS Dec. 2019 1180-1189*

**Manganese**

Thread Structure Learning on Online Health Forums With Partially Labeled Data. *Liu, Y., +, TCSS Dec. 2019 1273-1282*

**Market research**

Decentralized On-Demand Energy Supply for Blockchain in Internet of Things: A Microgrids Approach. *Li, J., +, TCSS Dec. 2019 1395-1406*

**Marketing data processing**

A Novel Scene of Viral Marketing for Complementary Products. *Guo, J., +, TCSS Aug. 2019 797-808*

**Markov processes**

A Novel Hybrid-Jump-Based Sampling Method for Complex Social Networks. *Liu, L., +, TCSS April 2019 241-249*

Competition and Cooperation: Dynamical Interplay Diffusion Between Social Topic Multiple Messages in Multiplex Networks. *Li, Q., +, TCSS June 2019 467-478*

**Mathematical analysis**

Conditional Coordination Games on Cyclic Social Influence Networks. *Stirling, W.C., TCSS April 2019 250-267*

**Mathematical model**

Group Influence Maximization Problem in Social Networks. *Zhu, J., +, TCSS Dec. 2019 1156-1164*

**Matrix algebra**

MPURank: A Social Hotspot Tracking Scheme Based on Tripartite Graph and Multimessages Iterative Driven. *Xiao, Y., +, TCSS Aug. 2019 715-725*

**Maximum likelihood estimation**

Joint Task Difficulties Estimation and Testees Ranking for Intelligence Evaluation. *Zhang, C., +, TCSS April 2019 221-226*

**Mean square error methods**

Is My Interface Beautiful?—A Computational Model-Based Approach. *Maity, R., +, TCSS Feb. 2019 149-161*

**Measurement**

Behind the Mask: Understanding the Structural Forces That Make Social Graphs Vulnerable to Deanonimization. *Horawalavithana, S., +, TCSS Dec. 2019 1343-1356*

The Evolution of Turing Award Collaboration Network: Bibliometric-Level and Network-Level Metrics. *Kong, X., +, TCSS Dec. 2019 1318-1328*

**Media**

A Large-Scale Study of the Twitter Follower Network to Characterize the Spread of Prescription Drug Abuse Tweets. *Sequeira, R., +, TCSS Dec. 2019 1232-1244*

**Medical computing**

A Unified Framework of Epidemic Spreading Prediction by Empirical Model Decomposition- Based Ensemble Learning Techniques. *Feng, Y., +, TCSS Aug. 2019 660-669*

Association Rule-Based Breast Cancer Prevention and Control System. *Li, A., +, TCSS Oct. 2019 1106-1114*

Multi-Modality Behavioral Influence Analysis for Personalized Recommendations in Health Social Media Environment. *Zhou, X., +, TCSS Oct. 2019 888-897*

Providing Appropriate Social Support to Prevention of Depression for Highly Anxious Sufferers. *Hao, F., +, TCSS Oct. 2019 879-887*

**Medical information systems**

Multi-Modality Behavioral Influence Analysis for Personalized Recommendations in Health Social Media Environment. *Zhou, X., +, TCSS Oct. 2019 888-897*

SocInf: Membership Inference Attacks on Social Media Health Data With Machine Learning. *Liu, G., +, TCSS Oct. 2019 907-921*

**Medical services**

Corrections to “Fractal Intelligent Privacy Protection in Online Social Network Using Attribute-Based Encryption Schemes”. *Wei, W., +, TCSS Feb. 2019 189*

**Message systems**

Thread Structure Learning on Online Health Forums With Partially Labeled Data. *Liu, Y., +, TCSS Dec. 2019 1273-1282*

**Microgrids**

Decentralized On-Demand Energy Supply for Blockchain in Internet of Things: A Microgrids Approach. *Li, J., +, TCSS Dec. 2019 1395-1406*

**Minimization**

Minimizing Misinformation Profit in Social Networks. *Chen, T., +, TCSS Dec. 2019 1206-1218*

**Mobile communication**

Mobile Edge Aided Data Dissemination for Wireless Healthcare Systems. *Shu, C., +, TCSS Oct. 2019 898-906*

**Mobile computing**

An Optimization and Auction-Based Incentive Mechanism to Maximize Social Welfare for Mobile Crowdsourcing. *Wang, Y., +, TCSS June 2019 414-429*

Analysis of Hospitalizing Behaviors Based on Big Trajectory Data. *Wang, Y., +, TCSS Aug. 2019 692-701*

COOC: Visual Exploration of Co-Occurrence Mobility Patterns in Urban Scenarios. *Kong, X., +, TCSS June 2019 403-413*

Finding All You Need: Web APIs Recommendation in Web of Things Through Keywords Search. *Qi, L., +, TCSS Oct. 2019 1063-1072*

Mobile Edge Aided Data Dissemination for Wireless Healthcare Systems. *Shu, C., +, TCSS Oct. 2019 898-906*

Optimal Auction Design With Quantized Bids for Target Tracking via Crowdsensing. *Cao, N., +, TCSS Oct. 2019 847-857*

Quality-Aware Sparse Data Collection in MEC-Enhanced Mobile Crowdsensing Systems. *Xia, X., +, TCSS Oct. 2019 1051-1062*

Understanding the Lifestyle of Older Population: Mobile Crowdsensing Approach. *Marakkalage, S.H., +, TCSS Feb. 2019 82-95*

**Mobile nodes**

A Novel Intrusion Detection and Prevention Scheme for Network Coding-Enabled Mobile Small Cells. *Parsamehr, R., +, TCSS Dec. 2019 1467-1477*

**Multi-agent systems**

Interactional Moral Systems: A Model of Social Mechanisms for the Moral Regulation of Exchange Processes in Agent Societies. *da Rocha Costa, A.C., +, TCSS Aug. 2019 778-796*

**Multicore processing**

Guest Editorial Special Issue on Parallel and Distributed Processing for Computational Social Systems. *Santos, E.E., +, TCSS Feb. 2019 176-177*

**N****National security**

Finding Emergent Patterns of Behaviors in Dynamic Heterogeneous Social Networks. *Hung, B.W.K., +, TCSS Oct. 2019 1007-1019*

**Natural sciences computing**

Sustainable Collaborator Recommendation Based on Conference Closure. *Wang, W., +, TCSS April 2019 311-322*

**Network theory (graphs)**

A Novel Hybrid-Jump-Based Sampling Method for Complex Social Networks. *Liu, L., +, TCSS April 2019 241-249*

Analysis of Adapted Films and Stories Based on Social Network. *Chowdhury, T., +, TCSS Oct. 2019 858-869*

Centrality Analysis in  $d$ -Regular Directed Acyclic Random Networks and Its Applications in Top- $k$  Recommendations. *Lu, P., +, TCSS Oct. 2019 968-980*

Competition and Cooperation: Dynamical Interplay Diffusion Between Social Topic Multiple Messages in Multiplex Networks. *Li, Q., +, TCSS June 2019 467-478*

Conditional Coordination Games on Cyclic Social Influence Networks. *Stirling, W.C., TCSS April 2019 250-267*

Conversational Networks for Automatic Online Moderation. *Papegnies, E., +, TCSS Feb. 2019 38-55*

GA-Based Q-Attack on Community Detection. *Chen, J., +, TCSS June 2019 491-503*

Leveraging Social Network Analysis for Characterizing Cohesion of Human-Managed Animals. *Vimalajeewa, D., +, TCSS April 2019 323-337*

#### Network topology

*k*-Context Technique: A Method for Identifying Dense Subgraphs in a Heterogeneous Information Network. *Barman, D., +, TCSS Dec. 2019 1190-1205*

Conditional Coordination Games on Cyclic Social Influence Networks. *Stirling, W.C., TCSS April 2019 250-267*

Signs of Heritage—An Agent-Based Model of the Dynamics of Heritage Categories. *Almeida, R.N., +, TCSS Dec. 2019 1283-1294*

Topo2Vec: A Novel Node Embedding Generation Based on Network Topology for Link Prediction. *Mallick, K., +, TCSS Dec. 2019 1306-1317*

#### Neural networks

Analytic Models of Roll Call Voting Dynamics. *Magelinski, T., +, TCSS Oct. 2019 932-942*

Extracting Resource Needs and Availabilities From Microblogs for Aiding Post-Disaster Relief Operations. *Basu, M., +, TCSS June 2019 604-618*

MultiSpectralNet: Spectral Clustering Using Deep Neural Network for Multi-View Data. *Huang, S., +, TCSS Aug. 2019 749-760*

Topo2Vec: A Novel Node Embedding Generation Based on Network Topology for Link Prediction. *Mallick, K., +, TCSS Dec. 2019 1306-1317*

#### Next generation networking

Decentralized On-Demand Energy Supply for Blockchain in Internet of Things: A Microgrids Approach. *Li, J., +, TCSS Dec. 2019 1395-1406*

#### Nonlinear estimation

Event Triggered Social Media Chatter: A New Modeling Framework. *Muhlmeier, M., +, TCSS April 2019 197-207*

## O

#### Open systems

New Blockchain-Based Architecture for Service Interoperations in Internet of Things. *Viriyasitavut, W., +, TCSS Aug. 2019 739-748*

#### Optimization

A Feedback Mechanism With Bounded Confidence- Based Optimization Approach for Consensus Reaching in Multiple Attribute Large-Scale Group Decision-Making. *Zha, Q., +, TCSS Oct. 2019 994-1006*

A Rhombic Dodecahedron Topology for Human-Centric Banking Big Data. *Wang, H., +, TCSS Oct. 2019 1095-1105*

A Second-Order Diffusion Model for Influence Maximization in Social Networks. *Tang, W., +, TCSS Aug. 2019 702-714*

Community Detection Based on Symbiotic Organisms Search and Neighborhood Information. *Xiao, J., +, TCSS Dec. 2019 1257-1272*

Human-Centric Cyber Social Computing Model for Hot-Event Detection and Propagation. *Shi, L., +, TCSS Oct. 2019 1042-1050*

Marginal Gains to Maximize Content Spread in Social Networks. *Yang, W., +, TCSS June 2019 479-490*

Multiobjective-Based Approach for Microblog Summarization. *Saini, N., +, TCSS Dec. 2019 1219-1231*

Quality of Experience Under a Prospect Theoretic Perspective: A Cultural Heritage Space Use Case. *Thanou, A., +, TCSS Feb. 2019 135-148*

Topo2Vec: A Novel Node Embedding Generation Based on Network Topology for Link Prediction. *Mallick, K., +, TCSS Dec. 2019 1306-1317*

## P

#### Parallel processing

A Distributed Spatiotemporal Contingency Analysis for the Lebanese Power Grid. *Abu Salem, F.K., +, TCSS Feb. 2019 162-175*

Guest Editorial Special Issue on Parallel and Distributed Processing for Computational Social Systems. *Santos, E.E., +, TCSS Feb. 2019 176-177*

#### Particle swarm optimization

An Optimization and Auction-Based Incentive Mechanism to Maximize Social Welfare for Mobile Crowdsourcing. *Wang, Y., +, TCSS June 2019 414-429*

PSO-ANE: Adaptive Network Embedding With Particle Swarm Optimization. *Chen, J., +, TCSS Aug. 2019 649-659*

#### Partitioning algorithms

Community Detection Based on Symbiotic Organisms Search and Neighborhood Information. *Xiao, J., +, TCSS Dec. 2019 1257-1272*

Particle Subswarms Collaborative Clustering. *Census, C., +, TCSS Dec. 2019 1165-1179*

#### Pattern classification

A Fuzzy Approach to Text Classification With Two-Stage Training for Ambiguous Instances. *Liu, H., +, TCSS April 2019 227-240*

A Novel Stream Clustering Framework for Spam Detection in Twitter. *Tajalizadeh, H., +, TCSS June 2019 525-534*

BEEF: Balanced English Explanations of Forecasts. *Grover, S., +, TCSS April 2019 350-364*

Computational Rumor Detection Without Non-Rumor: A One-Class Classification Approach. *Ebrahimi Fard, A., +, TCSS Oct. 2019 830-846*

Extracting Resource Needs and Availabilities From Microblogs for Aiding Post-Disaster Relief Operations. *Basu, M., +, TCSS June 2019 604-618*

Multi-Modality Behavioral Influence Analysis for Personalized Recommendations in Health Social Media Environment. *Zhou, X., +, TCSS Oct. 2019 888-897*

PSO-ANE: Adaptive Network Embedding With Particle Swarm Optimization. *Chen, J., +, TCSS Aug. 2019 649-659*

Summarizing Situational Tweets in Crisis Scenarios: An Extractive-Abstractive Approach. *Rudra, K., +, TCSS Oct. 2019 981-993*

#### Pattern clustering

A Novel Hybrid Clustering Algorithm for Topic Detection on Chinese Microblogging. *Geng, X., +, TCSS April 2019 289-300*

A Novel Stream Clustering Framework for Spam Detection in Twitter. *Tajalizadeh, H., +, TCSS June 2019 525-534*

A Rhombic Dodecahedron Topology for Human-Centric Banking Big Data. *Wang, H., +, TCSS Oct. 2019 1095-1105*

Anonymization in Online Social Networks Based on Enhanced Equi-Cardinal Clustering. *Siddula, M., +, TCSS Aug. 2019 809-820*

Clustering-Algorithm-Based Rare-Event Evolution Analysis via Social Media Data. *Lu, X.S., +, TCSS April 2019 301-310*

Discovering Transit-Oriented Development Regions of Megacities Using Heterogeneous Urban Data. *Kong, X., +, TCSS Oct. 2019 943-955*

Finding Emergent Patterns of Behaviors in Dynamic Heterogeneous Social Networks. *Hung, B.W.K., +, TCSS Oct. 2019 1007-1019*

MultiSpectralNet: Spectral Clustering Using Deep Neural Network for Multi-View Data. *Huang, S., +, TCSS Aug. 2019 749-760*

N2VSCDNNR: A Local Recommender System Based on Node2vec and Rich Information Network. *Chen, J., +, TCSS June 2019 456-466*

Providing Appropriate Social Support to Prevention of Depression for Highly Anxious Sufferers. *Hao, F., +, TCSS Oct. 2019 879-887*

#### Pattern matching

Extracting Resource Needs and Availabilities From Microblogs for Aiding Post-Disaster Relief Operations. *Basu, M., +, TCSS June 2019 604-618*

Finding Emergent Patterns of Behaviors in Dynamic Heterogeneous Social Networks. *Hung, B.W.K., +, TCSS Oct. 2019 1007-1019*

#### Pedestrians

Pedestrian Evacuation With Herding Behavior in the View-Limited Condition. *Meng, Q., +, TCSS June 2019 567-575*

#### Peer-to-peer computing

BCOSN: A Blockchain-Based Decentralized Online Social Network. *Jiang, L., +, TCSS Dec. 2019 1454-1466*

Blockchain-Based Trust Mechanism for IoT-Based Smart Manufacturing System. *Zhang, Y., +, TCSS Dec. 2019 1386-1394*

Detecting and Mitigating Points of Failure in Community Networks: A Graph-Based Approach. *Maccari, L., TCSS Feb. 2019 103-116*

#### Perturbation methods

Behind the Mask: Understanding the Structural Forces That Make Social Graphs Vulnerable to Deanonymization. *Horawalavithana, S., +, TCSS Dec. 2019 1343-1356*

#### Politics

Analytic Models of Roll Call Voting Dynamics. *Magelinski, T., +, TCSS Oct. 2019 932-942*

Crowd Behavior Evolution With Emotional Contagion in Political Rallies. *Ly, P., +, TCSS April 2019 377-386*

#### Pollution

A Novel Intrusion Detection and Prevention Scheme for Network Coding-Enabled Mobile Small Cells. *Parsamehr, R., +, TCSS Dec. 2019 1467-1477*

#### Power engineering computing

A Distributed Spatiotemporal Contingency Analysis for the Lebanese Power Grid. *Abu Salem, F.K., +, TCSS Feb. 2019 162-175*

#### Power grids

A Distributed Spatiotemporal Contingency Analysis for the Lebanese Power Grid. *Abu Salem, F.K., +, TCSS Feb. 2019 162-175*

#### Power system faults

A Distributed Spatiotemporal Contingency Analysis for the Lebanese Power Grid. *Abu Salem, F.K., +, TCSS Feb. 2019 162-175*

#### Prediction algorithms

Topo2Vec: A Novel Node Embedding Generation Based on Network Topology for Link Prediction. *Mallick, K., +, TCSS Dec. 2019 1306-1317*

#### Pricing

Forecasting Horticultural Products Price Using ARIMA Model and Neural Network Based on a Large-Scale Data Set Collected by Web Crawler. *Weng, Y., +, TCSS June 2019 547-553*

#### Privacy

A Blockchain-Powered Crowdsourcing Method With Privacy Preservation in Mobile Environment. *Xu, X., +, TCSS Dec. 2019 1407-1419*

BCOSN: A Blockchain-Based Decentralized Online Social Network. *Jiang, L., +, TCSS Dec. 2019 1454-1466*

Behind the Mask: Understanding the Structural Forces That Make Social Graphs Vulnerable to Deanonimization. *Horawalavithana, S., +, TCSS Dec. 2019 1343-1356*

Corrections to "Fractal Intelligent Privacy Protection in Online Social Network Using Attribute-Based Encryption Schemes". *Wei, W., +, TCSS Feb. 2019 189*

SCTSC: A Semicentralized Traffic Signal Control Mode With Attribute-Based Blockchain in IoVs. *Cheng, L., +, TCSS Dec. 2019 1373-1385*

#### Probability

Centrality Analysis in  $d$ -Regular Directed Acyclic Random Networks and Its Applications in Top- $k$  Recommendations. *Lu, P., +, TCSS Oct. 2019 968-980*

GDTM: A Gaussian Dynamic Topic Model for Forwarding Prediction Under Complex Mechanisms. *Li, Q., +, TCSS April 2019 338-349*

Impact of Social Network Structures on Uncertain Opinion Formation. *Zhan, M., +, TCSS Aug. 2019 670-679*

Joint Task Difficulties Estimation and Testees Ranking for Intelligence Evaluation. *Zhang, C., +, TCSS April 2019 221-226*

#### Productivity

Sustainable Collaborator Recommendation Based on Conference Closure. *Wang, W., +, TCSS April 2019 311-322*

#### Profitability

Maximizing Activity Profit in Social Networks. *Yang, W., +, TCSS Feb. 2019 117-126*

#### Program processors

Guest Editorial Special Issue on Parallel and Distributed Processing for Computational Social Systems. *Santos, E.E., +, TCSS Feb. 2019 176-177*

#### Protocols

Mobile Edge Aided Data Dissemination for Wireless Healthcare Systems. *Shu, C., +, TCSS Oct. 2019 898-906*

New Blockchain-Based Architecture for Service Interoperations in Internet of Things. *Viriyasitavat, W., +, TCSS Aug. 2019 739-748*

SCTSC: A Semicentralized Traffic Signal Control Mode With Attribute-Based Blockchain in IoVs. *Cheng, L., +, TCSS Dec. 2019 1373-1385*

#### Psychology

Multiperiod Asset Allocation Considering Dynamic Loss Aversion Behavior of Investors. *Wang, J., +, TCSS Feb. 2019 73-81*

Providing Appropriate Social Support to Prevention of Depression for Highly Anxious Sufferers. *Hao, F., +, TCSS Oct. 2019 879-887*

#### Public transport

Discovering Transit-Oriented Development Regions of Megacities Using Heterogeneous Urban Data. *Kong, X., +, TCSS Oct. 2019 943-955*

## Q

#### Quality of experience

A Blockchain-Powered Crowdsourcing Method With Privacy Preservation in Mobile Environment. *Xu, X., +, TCSS Dec. 2019 1407-1419*

#### Quality of service

Managing QoS of Internet-of-Things Services Using Blockchain. *Viriyasitavat, W., +, TCSS Dec. 2019 1357-1368*

#### Quantization (signal)

Optimal Auction Design With Quantized Bids for Target Tracking via Crowdsensing. *Cao, N., +, TCSS Oct. 2019 847-857*

#### Quantum entanglement

A Social Computing-Based Analysis on Monogamous Marriage Puzzle of Human. *Cai, N., +, TCSS June 2019 518-524*

#### Query processing

Finding Emergent Patterns of Behaviors in Dynamic Heterogeneous Social Networks. *Hung, B.W.K., +, TCSS Oct. 2019 1007-1019*

## R

#### Radio links

Detecting and Mitigating Points of Failure in Community Networks: A Graph-Based Approach. *Maccari, L., TCSS Feb. 2019 103-116*

#### Random processes

A Fair Blockchain Based on Proof of Credit. *Han, X., +, TCSS Oct. 2019 922-931*

A Two-Stage Intervened Decision System With State-Dependent Random Inspection Mechanisms. *Lin, T., +, TCSS April 2019 365-376*

Discovering Transit-Oriented Development Regions of Megacities Using Heterogeneous Urban Data. *Kong, X., +, TCSS Oct. 2019 943-955*

PSO-ANE: Adaptive Network Embedding With Particle Swarm Optimization. *Chen, J., +, TCSS Aug. 2019 649-659*

#### Real-time systems

Extracting Resource Needs and Availabilities From Microblogs for Aiding Post-Disaster Relief Operations. *Basu, M., +, TCSS June 2019 604-618*

#### Recommender systems

Centrality Analysis in  $d$ -Regular Directed Acyclic Random Networks and Its Applications in Top- $k$  Recommendations. *Lu, P., +, TCSS Oct. 2019 968-980*

Finding All You Need: Web APIs Recommendation in Web of Things Through Keywords Search. *Qi, L., +, TCSS Oct. 2019 1063-1072*

HiRecS: A Hierarchical Contextual Location Recommendation System. *Baral, R., +, TCSS Oct. 2019 1020-1037*

LORI: A Learning-to-Rank-Based Integration Method of Location Recommendation. *Li, J., +, TCSS June 2019 430-440*

Multi-Modality Behavioral Influence Analysis for Personalized Recommendations in Health Social Media Environment. *Zhou, X., +, TCSS Oct. 2019 888-897*

N2VSCDNNR: A Local Recommender System Based on Node2vec and Rich Information Network. *Chen, J., +, TCSS June 2019 456-466*

PersoNet: Friend Recommendation System Based on Big-Five Personality Traits and Hybrid Filtering. *Ning, H., +, TCSS June 2019 394-402*

Social Recommendation With Large-Scale Group Decision-Making for Cyber-Enabled Online Service. *Zhou, X., +, TCSS Oct. 2019 1073-1082*

Sustainable Collaborator Recommendation Based on Conference Closure. *Wang, W., +, TCSS April 2019 311-322*

User Rating Classification via Deep Belief Network Learning and Sentiment Analysis. *Chen, R., +, TCSS June 2019 535-546*

#### Recurrent neural networks

Forecasting Horticultural Products Price Using ARIMA Model and Neural Network Based on a Large-Scale Data Set Collected by Web Crawler. *Weng, Y., +, TCSS June 2019 547-553*

#### Regression analysis

Is My Interface Beautiful?—A Computational Model-Based Approach. *Maity, R., +, TCSS Feb. 2019 149-161*

Providing Appropriate Social Support to Prevention of Depression for Highly Anxious Sufferers. *Hao, F., +, TCSS Oct. 2019 879-887*



**Reliability**

Blockchain Enabled Industrial Internet of Things Technology. *Zhao, S., +, TCSS Dec. 2019 1442-1453*

**Research and development**

Corrections to “Requirements Socio-Technical Graphs for Managing Practitioners’ Traceability Questions”. *Niu, N., +, TCSS Feb. 2019 190*

**Retail data processing**

New Retail Business Analysis and Modeling: A Taobao Case Study. *Yin, Y., +, TCSS Oct. 2019 1126-1137*

**Risk analysis**

Association Rule-Based Breast Cancer Prevention and Control System. *Li, A., +, TCSS Oct. 2019 1106-1114*

**Risk management**

Association Rule-Based Breast Cancer Prevention and Control System. *Li, A., +, TCSS Oct. 2019 1106-1114*

**Road traffic**

SCTSC: A Semicentralized Traffic Signal Control Mode With Attribute-Based Blockchain in IoVs. *Cheng, L., +, TCSS Dec. 2019 1373-1385*

**S****Sampling methods**

A Novel Hybrid-Jump-Based Sampling Method for Complex Social Networks. *Liu, L., +, TCSS April 2019 241-249*

Providing Appropriate Social Support to Prevention of Depression for Highly Anxious Sufferers. *Hao, F., +, TCSS Oct. 2019 879-887*

**Scalability**

Blockchain and Internet of Things for Modern Business Process in Digital Economy—the State of the Art. *Viriyasitavat, W., +, TCSS Dec. 2019 1420-1432*

**Search problems**

Finding Emergent Patterns of Behaviors in Dynamic Heterogeneous Social Networks. *Hung, B.W.K., +, TCSS Oct. 2019 1007-1019*

Multiperiod Asset Allocation Considering Dynamic Loss Aversion Behavior of Investors. *Wang, J., +, TCSS Feb. 2019 73-81*

**Security**

Blockchain Enabled Industrial Internet of Things Technology. *Zhao, S., +, TCSS Dec. 2019 1442-1453*

Blockchain-Based Digital Forensics Investigation Framework in the Internet of Things and Social Systems. *Li, S., +, TCSS Dec. 2019 1433-1441*

Decentralized On-Demand Energy Supply for Blockchain in Internet of Things: A Microgrids Approach. *Li, J., +, TCSS Dec. 2019 1395-1406*

Guest Editorial Special Issue on Blockchain-Based Secure and Trusted Computing for IoT. *Li, S., +, TCSS Dec. 2019 1369-1372*

Managing QoS of Internet-of-Things Services Using Blockchain. *Viriyasitavat, W., +, TCSS Dec. 2019 1357-1368*

Particle Subswarms Collaborative Clustering. *Census, C., +, TCSS Dec. 2019 1165-1179*

**Self-organizing feature maps**

Multiobjective-Based Approach for Microblog Summarization. *Saini, N., +, TCSS Dec. 2019 1219-1231*

**Sensor fusion**

Optimal Auction Design With Quantized Bids for Target Tracking via Crowdsensing. *Cao, N., +, TCSS Oct. 2019 847-857*

Understanding the Lifestyle of Older Population: Mobile Crowdsensing Approach. *Marakkalage, S.H., +, TCSS Feb. 2019 82-95*

**Sentiment analysis**

A Fuzzy Approach to Text Classification With Two-Stage Training for Ambiguous Instances. *Liu, H., +, TCSS April 2019 227-240*

STCS Lexicon: Spectral-Clustering-Based Topic-Specific Chinese Sentiment Lexicon Construction for Social Networks. *Zhang, B., +, TCSS Dec. 2019 1180-1189*

User Rating Classification via Deep Belief Network Learning and Sentiment Analysis. *Chen, R., +, TCSS June 2019 535-546*

**Service-oriented architecture**

New Blockchain-Based Architecture for Service Interoperations in Internet of Things. *Viriyasitavat, W., +, TCSS Aug. 2019 739-748*

**Set theory**

A Novel Scene of Viral Marketing for Complementary Products. *Guo, J., +, TCSS Aug. 2019 797-808*

HiRecS: A Hierarchical Contextual Location Recommendation System. *Baral, R., +, TCSS Oct. 2019 1020-1037*

Identify Connected Positive Influence Dominating Set in Social Networks Using Two-Hop Coverage. *Du, H., +, TCSS Oct. 2019 956-967*

**Smart contracts**

Application of Blockchain in Collaborative Internet-of-Things Services. *Xu, L.D., +, TCSS Dec. 2019 1295-1305*

BCOSN: A Blockchain-Based Decentralized Online Social Network. *Jiang, L., +, TCSS Dec. 2019 1454-1466*

Blockchain-Based Trust Mechanism for IoT-Based Smart Manufacturing System. *Zhang, Y., +, TCSS Dec. 2019 1386-1394*

Managing QoS of Internet-of-Things Services Using Blockchain. *Viriyasitavat, W., +, TCSS Dec. 2019 1357-1368*

**Smart devices**

Guest Editorial Special Issue on Blockchain-Based Secure and Trusted Computing for IoT. *Li, S., +, TCSS Dec. 2019 1369-1372*

**Smart manufacturing**

Blockchain-Based Trust Mechanism for IoT-Based Smart Manufacturing System. *Zhang, Y., +, TCSS Dec. 2019 1386-1394*

**Smart phones**

Understanding the Lifestyle of Older Population: Mobile Crowdsensing Approach. *Marakkalage, S.H., +, TCSS Feb. 2019 82-95*

**Social aspects of automation**

Opinion Formation in Online Social Networks: Exploiting Predisposition, Interaction, and Credibility. *Das, R., +, TCSS June 2019 554-566*

**Social computing**

Guest Editorial: Special Issue on Human-Centric Cyber Social Computing. *Jin, Q., +, TCSS Oct. 2019 1038-1041*

**Social factors**

Signs of Heritage—An Agent-Based Model of the Dynamics of Heritage Categories. *Almeida, R.N., +, TCSS Dec. 2019 1283-1294*

**Social network theory**

Information Diffusion Nonlinear Dynamics Modeling and Evolution Analysis in Online Social Network Based on Emergency Events. *Liu, X., +, TCSS Feb. 2019 8-19*

**Social networking (online)**

*k*-Context Technique: A Method for Identifying Dense Subgraphs in a Heterogeneous Information Network. *Barman, D., +, TCSS Dec. 2019 1190-1205*

A Fuzzy Approach to Text Classification With Two-Stage Training for Ambiguous Instances. *Liu, H., +, TCSS April 2019 227-240*

A Novel Hybrid-Jump-Based Sampling Method for Complex Social Networks. *Liu, L., +, TCSS April 2019 241-249*

A Novel Scene of Viral Marketing for Complementary Products. *Guo, J., +, TCSS Aug. 2019 797-808*

A Novel Stream Clustering Framework for Spam Detection in Twitter. *Tajalizadeh, H., +, TCSS June 2019 525-534*

A Second-Order Diffusion Model for Influence Maximization in Social Networks. *Tang, W., +, TCSS Aug. 2019 702-714*

Adopter Community Formation Accelerated by Repeaters of Product Advertisement Campaigns. *Oida, K., +, TCSS Feb. 2019 56-72*

Analysis of Adapted Films and Stories Based on Social Network. *Chowdhury, T., +, TCSS Oct. 2019 858-869*

Anonymization in Online Social Networks Based on Enhanced Equi-Cardinal Clustering. *Siddula, M., +, TCSS Aug. 2019 809-820*

BCOSN: A Blockchain-Based Decentralized Online Social Network. *Jiang, L., +, TCSS Dec. 2019 1454-1466*

Centrality Analysis in *d*-Regular Directed Acyclic Random Networks and Its Applications in Top-*k* Recommendations. *Lu, P., +, TCSS Oct. 2019 968-980*

Clustering-Algorithm-Based Rare-Event Evolution Analysis via Social Media Data. *Lu, X.S., +, TCSS April 2019 301-310*

Competition and Cooperation: Dynamical Interplay Diffusion Between Social Topic Multiple Messages in Multiplex Networks. *Li, Q., +, TCSS June 2019 467-478*

- Computational Rumor Detection Without Non-Rumor: A One-Class Classification Approach. *Ebrahimi Fard, A.*, +, *TCSS Oct. 2019 830-846*
- Conditional Coordination Games on Cyclic Social Influence Networks. *Stirling, W.C.*, *TCSS April 2019 250-267*
- Conversational Networks for Automatic Online Moderation. *Papegnies, E.*, +, *TCSS Feb. 2019 38-55*
- Corrections to “Fractal Intelligent Privacy Protection in Online Social Network Using Attribute-Based Encryption Schemes”. *Wei, W.*, +, *TCSS Feb. 2019 189*
- Cross-Cultural Studies Using Social Networks Data. *Annamoradnejad, I.*, +, *TCSS Aug. 2019 627-636*
- Crowd Behavior Evolution With Emotional Contagion in Political Rallies. *Lv, P.*, +, *TCSS April 2019 377-386*
- Editorial Versus Audience Gatekeeping: Analyzing News Selection and Consumption Dynamics in Online News Media. *Chakraborty, A.*, +, *TCSS Aug. 2019 680-691*
- Event Triggered Social Media Chatter: A New Modeling Framework. *Muhlmeyer, M.*, +, *TCSS April 2019 197-207*
- Extracting Resource Needs and Availabilities From Microblogs for Aiding Post-Disaster Relief Operations. *Basu, M.*, +, *TCSS June 2019 604-618*
- Filtering Instagram Hashtags Through Crowdtagging and the HITS Algorithm. *Giannoulakis, S.*, +, *TCSS June 2019 592-603*
- Finding Emergent Patterns of Behaviors in Dynamic Heterogeneous Social Networks. *Hung, B.W.K.*, +, *TCSS Oct. 2019 1007-1019*
- Fusing Behavioral Projection Models for Identity Theft Detection in Online Social Networks. *Wang, C.*, +, *TCSS Aug. 2019 637-648*
- GA-Based Q-Attack on Community Detection. *Chen, J.*, +, *TCSS June 2019 491-503*
- GDTM: A Gaussian Dynamic Topic Model for Forwarding Prediction Under Complex Mechanisms. *Li, Q.*, +, *TCSS April 2019 338-349*
- Group Influence Maximization Problem in Social Networks. *Zhu, J.*, +, *TCSS Dec. 2019 1156-1164*
- Guest Editorial: Special Issue on Human-Centric Cyber Social Computing. *Jin, Q.*, +, *TCSS Oct. 2019 1038-1041*
- HiRecS: A Hierarchical Contextual Location Recommendation System. *Baral, R.*, +, *TCSS Oct. 2019 1020-1037*
- Human-Centric Cyber Social Computing Model for Hot-Event Detection and Propagation. *Shi, L.*, +, *TCSS Oct. 2019 1042-1050*
- Identify Connected Positive Influence Dominating Set in Social Networks Using Two-Hop Coverage. *Du, H.*, +, *TCSS Oct. 2019 956-967*
- Impact of Social Network Structures on Uncertain Opinion Formation. *Zhan, M.*, +, *TCSS Aug. 2019 670-679*
- Influence Maximization From Cascade Information Traces in Complex Networks in the Absence of Network Structure. *Kolli, N.*, +, *TCSS Dec. 2019 1147-1155*
- Information Diffusion Nonlinear Dynamics Modeling and Evolution Analysis in Online Social Network Based on Emergency Events. *Liu, X.*, +, *TCSS Feb. 2019 8-19*
- Leveraging Social Network Analysis for Characterizing Cohesion of Human-Managed Animals. *Vimalajeewa, D.*, +, *TCSS April 2019 323-337*
- LORI: A Learning-to-Rank-Based Integration Method of Location Recommendation. *Li, J.*, +, *TCSS June 2019 430-440*
- Marginal Gains to Maximize Content Spread in Social Networks. *Yang, W.*, +, *TCSS June 2019 479-490*
- Maximizing Activity Profit in Social Networks. *Yang, W.*, +, *TCSS Feb. 2019 117-126*
- Minimizing Misinformation Profit in Social Networks. *Chen, T.*, +, *TCSS Dec. 2019 1206-1218*
- MPURank: A Social Hotspot Tracking Scheme Based on Tripartite Graph and Multimessages Iterative Driven. *Xiao, Y.*, +, *TCSS Aug. 2019 715-725*
- Multi-Modality Behavioral Influence Analysis for Personalized Recommendations in Health Social Media Environment. *Zhou, X.*, +, *TCSS Oct. 2019 888-897*
- Online Public Shaming on Twitter: Detection, Analysis, and Mitigation. *Basak, R.*, +, *TCSS April 2019 208-220*
- Opinion Formation in Online Social Networks: Exploiting Predisposition, Interaction, and Credibility. *Das, R.*, +, *TCSS June 2019 554-566*
- Personet: Friend Recommendation System Based on Big-Five Personality Traits and Hybrid Filtering. *Ning, H.*, +, *TCSS June 2019 394-402*
- Social Recommendation With Large-Scale Group Decision-Making for Cyber-Enabled Online Service. *Zhou, X.*, +, *TCSS Oct. 2019 1073-1082*
- SocInf: Membership Inference Attacks on Social Media Health Data With Machine Learning. *Liu, G.*, +, *TCSS Oct. 2019 907-921*
- STCS Lexicon: Spectral-Clustering-Based Topic-Specific Chinese Sentiment Lexicon Construction for Social Networks. *Zhang, B.*, +, *TCSS Dec. 2019 1180-1189*
- Summarizing Situational Tweets in Crisis Scenarios: An Extractive-Abstractive Approach. *Rudra, K.*, +, *TCSS Oct. 2019 981-993*
- Temporal Sequence of Retweets Help to Detect Influential Nodes in Social Networks. *Bhowmick, A.K.*, +, *TCSS June 2019 441-455*
- Tweet Summarization of News Articles: An Objective Ordering-Based Perspective. *Chakraborty, R.*, +, *TCSS Aug. 2019 761-777*
- Word Adoption in Online Communities. *Cole, J.*, +, *TCSS Feb. 2019 178-188*
- Social sciences**
- Finding Emergent Patterns of Behaviors in Dynamic Heterogeneous Social Networks. *Hung, B.W.K.*, +, *TCSS Oct. 2019 1007-1019*
- Leveraging Social Network Analysis for Characterizing Cohesion of Human-Managed Animals. *Vimalajeewa, D.*, +, *TCSS April 2019 323-337*
- Type-2 Fuzzy Comprehension Evaluation for Tourist Attractive Competency. *Mo, H.*, +, *TCSS Feb. 2019 96-102*
- Social sciences computing**
- Assessing Refugees’ Integration via Spatio-Temporal Similarities of Mobility and Calling Behaviors. *Alfeo, A.L.*, +, *TCSS Aug. 2019 726-738*
- Joint Task Difficulties Estimation and Testees Ranking for Intelligence Evaluation. *Zhang, C.*, +, *TCSS April 2019 221-226*
- Online Public Shaming on Twitter: Detection, Analysis, and Mitigation. *Basak, R.*, +, *TCSS April 2019 208-220*
- Software Architecture Social Debt: Managing the Incommunicability Factor. *Tamburri, D.A.*, *TCSS Feb. 2019 20-37*
- Word Adoption in Online Communities. *Cole, J.*, +, *TCSS Feb. 2019 178-188*
- Sociology**
- Multiobjective-Based Approach for Microblog Summarization. *Saini, N.*, +, *TCSS Dec. 2019 1219-1231*
- Sociotechnical systems**
- Guest Editorial Special Issue on Parallel and Distributed Processing for Computational Social Systems. *Santos, E.E.*, +, *TCSS Feb. 2019 176-177*
- Signs of Heritage—An Agent-Based Model of the Dynamics of Heritage Categories. *Almeida, R.N.*, +, *TCSS Dec. 2019 1283-1294*
- Software**
- Corrections to “Requirements Socio-Technical Graphs for Managing Practitioners’ Traceability Questions”. *Niu, N.*, +, *TCSS Feb. 2019 190*
- The Evolution of Turing Award Collaboration Network: Bibliometric-Level and Network-Level Metrics. *Kong, X.*, +, *TCSS Dec. 2019 1318-1328*
- Software architecture**
- New Blockchain-Based Architecture for Service Interoperations in Internet of Things. *Viriyasitavat, W.*, +, *TCSS Aug. 2019 739-748*
- Software Architecture Social Debt: Managing the Incommunicability Factor. *Tamburri, D.A.*, *TCSS Feb. 2019 20-37*
- Space debris**
- Digital Currency Design for Sustainable Active Debris Removal in Space. *Saito, K.*, +, *TCSS Feb. 2019 127-134*
- Spatiotemporal phenomena**
- Assessing Refugees’ Integration via Spatio-Temporal Similarities of Mobility and Calling Behaviors. *Alfeo, A.L.*, +, *TCSS Aug. 2019 726-738*
- FBVA: A Flow-Based Visual Analytics Approach for Citywide Crowd Mobility. *Luo, X.*, +, *TCSS April 2019 277-288*
- Special issues and sections**
- Guest Editorial Special Issue on Blockchain-Based Secure and Trusted Computing for IoT. *Li, S.*, +, *TCSS Dec. 2019 1369-1372*
- Guest Editorial Special Issue on Parallel and Distributed Processing for Computational Social Systems. *Santos, E.E.*, +, *TCSS Feb. 2019 176-177*
- Guest Editorial: Special Issue on Human-Centric Cyber Social Computing. *Jin, Q.*, +, *TCSS Oct. 2019 1038-1041*

**Sports**

An Analysis of the Internal Organization of Facebook Groups. *De Salve, A.*, +, *TCSS Dec. 2019 1245-1256*

**Standards**

Community Detection Based on Symbiotic Organisms Search and Neighborhood Information. *Xiao, J.*, +, *TCSS Dec. 2019 1257-1272*

**Statistical analysis**

Information Diffusion Nonlinear Dynamics Modeling and Evolution Analysis in Online Social Network Based on Emergency Events. *Liu, X.*, +, *TCSS Feb. 2019 8-19*

Joint Task Difficulties Estimation and Testees Ranking for Intelligence Evaluation. *Zhang, C.*, +, *TCSS April 2019 221-226*

Providing Appropriate Social Support to Prevention of Depression for Highly Anxious Sufferers. *Hao, F.*, +, *TCSS Oct. 2019 879-887*

**Statistical distributions**

Joint Task Difficulties Estimation and Testees Ranking for Intelligence Evaluation. *Zhang, C.*, +, *TCSS April 2019 221-226*

**Statistics**

Multiobjective-Based Approach for Microblog Summarization. *Saini, N.*, +, *TCSS Dec. 2019 1219-1231*

**Storage**

Forecasting Horticultural Products Price Using ARIMA Model and Neural Network Based on a Large-Scale Data Set Collected by Web Crawler. *Weng, Y.*, +, *TCSS June 2019 547-553*

**Supervised learning**

Extracting Resource Needs and Availabilities From Microblogs for Aiding Post-Disaster Relief Operations. *Basu, M.*, +, *TCSS June 2019 604-618*

**Supply and demand**

Forecasting Horticultural Products Price Using ARIMA Model and Neural Network Based on a Large-Scale Data Set Collected by Web Crawler. *Weng, Y.*, +, *TCSS June 2019 547-553*

**Supply chains**

Forecasting Horticultural Products Price Using ARIMA Model and Neural Network Based on a Large-Scale Data Set Collected by Web Crawler. *Weng, Y.*, +, *TCSS June 2019 547-553*

**Support vector machines**

Is My Interface Beautiful?—A Computational Model-Based Approach. *Maity, R.*, +, *TCSS Feb. 2019 149-161*

Topo2Vec: A Novel Node Embedding Generation Based on Network Topology for Link Prediction. *Mallick, K.*, +, *TCSS Dec. 2019 1306-1317*

**Sustainable development**

Discovering Transit-Oriented Development Regions of Megacities Using Heterogeneous Urban Data. *Kong, X.*, +, *TCSS Oct. 2019 943-955*

Sustainable Collaborator Recommendation Based on Conference Closure. *Wang, W.*, +, *TCSS April 2019 311-322*

**Symbiosis**

Community Detection Based on Symbiotic Organisms Search and Neighborhood Information. *Xiao, J.*, +, *TCSS Dec. 2019 1257-1272*

**System performance**

Blockchain and Internet of Things for Modern Business Process in Digital Economy—the State of the Art. *Viriyasitavat, W.*, +, *TCSS Dec. 2019 1420-1432*

**T****Target tracking**

Optimal Auction Design With Quantized Bids for Target Tracking via Crowdsensing. *Cao, N.*, +, *TCSS Oct. 2019 847-857*

**Task analysis**

A Blockchain-Powered Crowdsourcing Method With Privacy Preservation in Mobile Environment. *Xu, X.*, +, *TCSS Dec. 2019 1407-1419*

Multiobjective-Based Approach for Microblog Summarization. *Saini, N.*, +, *TCSS Dec. 2019 1219-1231*

Topo2Vec: A Novel Node Embedding Generation Based on Network Topology for Link Prediction. *Mallick, K.*, +, *TCSS Dec. 2019 1306-1317*

**Team working**

Academic Team Formulation Based on Liebig's Barrel: Discovery of Anticask Effect. *Yu, S.*, +, *TCSS Oct. 2019 1083-1094*

**Text analysis**

A Novel Hybrid Clustering Algorithm for Topic Detection on Chinese Microblogging. *Geng, X.*, +, *TCSS April 2019 289-300*

An Overview of Unsupervised Deep Feature Representation for Text Categorization. *Wang, S.*, +, *TCSS June 2019 504-517*

Conversational Networks for Automatic Online Moderation. *Papegnies, E.*, +, *TCSS Feb. 2019 38-55*

Extracting Resource Needs and Availabilities From Microblogs for Aiding Post-Disaster Relief Operations. *Basu, M.*, +, *TCSS June 2019 604-618*

GDTM: A Gaussian Dynamic Topic Model for Forwarding Prediction Under Complex Mechanisms. *Li, Q.*, +, *TCSS April 2019 338-349*

Is My Interface Beautiful?—A Computational Model-Based Approach. *Maity, R.*, +, *TCSS Feb. 2019 149-161*

**Time series**

A Unified Framework of Epidemic Spreading Prediction by Empirical Mode Decomposition-Based Ensemble Learning Techniques. *Feng, Y.*, +, *TCSS Aug. 2019 660-669*

Multi-Modality Behavioral Influence Analysis for Personalized Recommendations in Health Social Media Environment. *Zhou, X.*, +, *TCSS Oct. 2019 888-897*

**Time series analysis**

Effect of NO<sub>2</sub> on O<sub>3</sub> Using Complex Network Topology Analysis. *Zhang, Q.*, +, *TCSS Dec. 2019 1329-1342*

**Topology**

k-Context Technique: A Method for Identifying Dense Subgraphs in a Heterogeneous Information Network. *Barman, D.*, +, *TCSS Dec. 2019 1190-1205*

Behind the Mask: Understanding the Structural Forces That Make Social Graphs Vulnerable to Deanonimization. *Horawalavithana, S.*, +, *TCSS Dec. 2019 1343-1356*

**Town and country planning**

COOC: Visual Exploration of Co-Occurrence Mobility Patterns in Urban Scenarios. *Kong, X.*, +, *TCSS June 2019 403-413*

Discovering Transit-Oriented Development Regions of Megacities Using Heterogeneous Urban Data. *Kong, X.*, +, *TCSS Oct. 2019 943-955*

**Training**

Thread Structure Learning on Online Health Forums With Partially Labeled Data. *Liu, Y.*, +, *TCSS Dec. 2019 1273-1282*

**Training data**

Thread Structure Learning on Online Health Forums With Partially Labeled Data. *Liu, Y.*, +, *TCSS Dec. 2019 1273-1282*

**Travel industry**

Type-2 Fuzzy Comprehension Evaluation for Tourist Attractive Competency. *Mo, H.*, +, *TCSS Feb. 2019 96-102*

**Tree searching**

A Novel Hybrid-Jump-Based Sampling Method for Complex Social Networks. *Liu, L.*, +, *TCSS April 2019 241-249*

**Twitter**

A Large-Scale Study of the Twitter Follower Network to Characterize the Spread of Prescription Drug Abuse Tweets. *Sequeira, R.*, +, *TCSS Dec. 2019 1232-1244*

Multiobjective-Based Approach for Microblog Summarization. *Saini, N.*, +, *TCSS Dec. 2019 1219-1231*

**U****Unsolicited e-mail**

A Novel Stream Clustering Framework for Spam Detection in Twitter. *Tajal-izadeh, H.*, +, *TCSS June 2019 525-534*

**Unsupervised learning**

An Overview of Unsupervised Deep Feature Representation for Text Categorization. *Wang, S.*, +, *TCSS June 2019 504-517*

Extracting Resource Needs and Availabilities From Microblogs for Aiding Post-Disaster Relief Operations. *Basu, M.*, +, *TCSS June 2019 604-618*

**Upper bound**

Group Influence Maximization Problem in Social Networks. *Zhu, J.*, +, *TCSS Dec. 2019 1156-1164*

**Urban areas**

Effect of NO<sub>2</sub> on O<sub>3</sub> Using Complex Network Topology Analysis. *Zhang, Q.*, +, *TCSS Dec. 2019 1329-1342*

**User interfaces**

Is My Interface Beautiful?—A Computational Model-Based Approach. *Maity, R.*, +, *TCSS Feb. 2019 149-161*

**V****Vehicle safety**

SCTSC: A Semicentralized Traffic Signal Control Mode With Attribute-Based Blockchain in IoVs. *Cheng, L.*, +, *TCSS Dec. 2019 1373-1385*

**Vehicular ad hoc networks**

Content Retrieval Based on Vehicular Cloud in Internet of Vehicles. *Wang, X.*, +, *TCSS June 2019 582-591*

**Voting**

Minimizing Misinformation Profit in Social Networks. *Chen, T.*, +, *TCSS Dec. 2019 1206-1218*

**W****Web services**

New Blockchain-Based Architecture for Service Interoperations in Internet of Things. *Viriyasitavat, W.*, +, *TCSS Aug. 2019 739-748*

Social Recommendation With Large-Scale Group Decision-Making for Cyber-Enabled Online Service. *Zhou, X.*, +, *TCSS Oct. 2019 1073-1082*

**Web sites**

A Novel Hybrid Clustering Algorithm for Topic Detection on Chinese Microblogging. *Geng, X.*, +, *TCSS April 2019 289-300*

**Wireless mesh networks**

Detecting and Mitigating Points of Failure in Community Networks: A Graph-Based Approach. *Maccari, L.*, *TCSS Feb. 2019 103-116*

**Wireless sensor networks**

Optimal Auction Design With Quantized Bids for Target Tracking via Crowdsensing. *Cao, N.*, +, *TCSS Oct. 2019 847-857*